



## **ANALYTICAL DATA REPORT**

JMC Environmental Consultants  
2109 Bridge Avenue  
Building B  
Point Pleasant, NJ 08742

Project Name: **ARSYNCO**  
IAL Case Number: **E13-10103**

These data have been reviewed and accepted by:

A handwritten signature in black ink that reads 'Michael H. Lefth'. The signature is written in a cursive style and is positioned above a horizontal line.

Michael H. Lefth, Ph.D.  
Laboratory Director

**This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.**

# Sample Summary

*IAL Case No.*

**E13-10103**

*Client* JMC Environmental Consultants

*Project* ARSYNCO

*Received On* 10/10/2013@17:01

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Depth Top/Bottom</u>	<u>Sampling Time</u>	<u>Matrix</u>	<u># of Container</u>
10103-001	JJ-38(0-1.0)	0/1.0	10/10/2013@09:25	Soil	1
10103-002	JJ-38(1.0-2.0)	1.0/2.0	10/10/2013@09:26	Soil	1
10103-003	JJ-38(2.0-3.0)	2.0/3.0	10/10/2013@09:27	Soil	1
10103-004	II-38(0-1.0)	0/1.0	10/10/2013@10:23	Soil	1
10103-005	II-38(1.0-2.0)	1.0/2.0	10/10/2013@10:24	Soil	1
10103-006	II-38(2.0-3.0)	2.0/3.0	10/10/2013@10:25	Soil	1
10103-007	JJ-39(0-1.0)	0/1.0	10/10/2013@11:05	Soil	1
10103-008	JJ-39(1.0-2.0)	1.0/2.0	10/10/2013@11:06	Soil	1
10103-009	II-35R(5.0-6.0)	5.0/6.0	10/10/2013@12:05	Soil	1
10103-010	II-34N(4.0-5.0)	4.0/5.0	10/10/2013@13:50	Soil	1
10103-011	II-34N(6.0-7.0)	6.0/7.0	10/10/2013@13:51	Soil	1
10103-012	FB-19	n/a	10/10/2013@14:20	Aqueous	2

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

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This report was finalized on October 25, 2013

\* Methodology is included in the IAL Project Information Page

# INTEGRATED ANALYTICAL LABORATORIES, LLC.

## DEFINITIONS / QUALIFIERS

### DATA QUALIFIERS

- B** Indicates the analyte was found in the associated method blank as well as in the sample. It indicates probable laboratory contamination.
- C** Indicates analyte is a common laboratory contaminant.
- D** Indicated analyte was reported from diluted analysis.
- E** Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument for that specific analysis.
- J** Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL.

### REPORTING DEFINITIONS

- RL** Reporting Limit. The RL is determined by the lowest concentration in the calibration curve. For most Wet Chemistry methods, the RL is defined by using the PQL.
- MDL** Method Detection Limit as determined according to 40CFR Part 136 Appendix B.
- PQL** Practical Quantitation Limit. Usually defined as a value 3-5 times the MDL.
- ND** Indicates analyte was analyzed for but not detected above the MDL.
- DF** Dilution Factor
- LCS** Laboratory Control Sample
- LCSD** Laboratory Control Sample Duplicate
- MS** Matrix Spike
- MSD** Matrix Spike Duplicate
- DUP** Duplicate

**CONFORMANCE / NON-CONFORMANCE SUMMARIES**

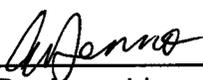
**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

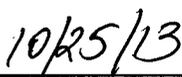
**CONFORMANCE / NONCONFORMANCE SUMMARY**

Integrated Analytical Laboratories, LLC. received one (1) aqueous and eleven (11) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-10103, Project: ARSYNCO) on October 10, 2013 for the analysis of:

(12) TCL PCB

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

  
\_\_\_\_\_  
Reviewed by

  
\_\_\_\_\_  
Date

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**SDG#: E13-10103**

**PCB By 8082A**

**Batch ID: 131014-14**

**Matrix: Aqueous**

**QC**

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS/LCSD Percent Recovery met QC criteria.
- RPD between LCS/LCSD met QC criteria.
- MS/MSD were not analyzed due to insufficient sample volume. LCS/LCSD were analyzed in their absence to meet method specific QC requirements.
- The following samples were cleaned up using method 3660B to remove sulfur: 012
- The following samples were cleaned up using method 3665A: 012

**E13-10103**

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- No dilution was performed for sample 012.

  
Signature

10/15/2013

Date

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**SDG#: E13-10103**

**PCB By 8082A**

**Batch ID: 131016-07**

**Matrix: Soil**

**QC**

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery did not meet QC criteria. Surrogate did not pass QC limits due to matrix interference for samples 001,002,004.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD Percent Recovery met QC criteria.
- RPD between MS/MSD met QC criteria.
- The following samples were cleaned up using method 3660B to remove sulfur: 001, 002, 003, 004

**E13-10103**

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- Sample 004 was diluted 5x for target compound. No dilution performed for samples 001-003.

  
Signature

10/18/2013

Date

# SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-10103

PCB By 8082A

Batch ID: 131017-11

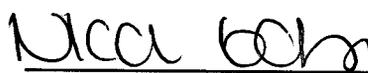
Matrix: Soil

**QC**

- Calibration Curve met QC criteria.
- Surrogate Percent Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD Percent Recovery met QC criteria.
- RPD between MS/MSD met QC criteria.
- The following samples were cleaned up using method 3660B to remove sulfur: 005, 006, 007, 008, 009, 010, 011

**E13-10103**

- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.
- Sample 10103 -010 was run with 5x dilution due to a high concentration of the target compound. No dilution was performed for samples 10103 -005 through -009 and -011.

 10/21/2013  
Signature Date

## RESULTS SUMMARY REPORT

**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**SUMMARY REPORT**

Client: JMC Environmental Consultants

Project: ARSYNCO

Lab Case No.: E13-10103

<b>Lab ID:</b>	<b>10103-012</b>
<b>Client ID:</b>	<b>FB-19</b>
<b>Matrix:</b>	<b>Aqueous</b>
<b>Sampled Date</b>	<b>10/10/13</b>
<b>PARAMETER(Units)</b>	<b>Conc Q MDL</b>
<b>PCB's (Units)</b>	<b>(mg/L-ppm)</b>
Aroclor-1016	ND 0.00002
Aroclor-1221	ND 0.00002
Aroclor-1232	ND 0.00002
Aroclor-1242	ND 0.00002
Aroclor-1248	ND 0.00002
Aroclor-1254	ND 0.00002
Aroclor-1260	ND 0.00002
Aroclor-1262	ND 0.00002
Aroclor-1268	ND 0.00002
PCBs	ND

<b>Lab ID:</b>	<b>10103-001</b>	<b>10103-002</b>	<b>10103-003</b>	<b>10103-004</b>
<b>Client ID:</b>	<b>JJ-38(0-1.0)</b>	<b>JJ-38(1.0-2.0)</b>	<b>JJ-38(2.0-3.0)</b>	<b>II-38(0-1.0)</b>
<b>Depth:</b>	<b>0/1.0</b>	<b>1.0/2.0</b>	<b>2.0/3.0</b>	<b>0/1.0</b>
<b>Matrix:</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>
<b>Sampled Date</b>	<b>10/10/13</b>	<b>10/10/13</b>	<b>10/10/13</b>	<b>10/10/13</b>
<b>PARAMETER(Units)</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>
<b>PCB's (Units)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>
Aroclor-1016	ND 0.074	ND 0.126	ND 0.034	ND 0.065
Aroclor-1221	ND 0.074	ND 0.126	ND 0.034	ND 0.065
Aroclor-1232	ND 0.074	ND 0.126	ND 0.034	ND 0.065
Aroclor-1242	ND 0.074	ND 0.126	ND 0.034	ND 0.065
Aroclor-1248	3.80 0.074	0.759 0.126	ND 0.034	63.0 D 0.324
Aroclor-1254	3.38 0.074	ND 0.126	ND 0.034	ND 0.065
Aroclor-1260	ND 0.074	ND 0.126	ND 0.034	ND 0.065
Aroclor-1262	ND 0.074	ND 0.126	ND 0.034	ND 0.065
Aroclor-1268	ND 0.074	ND 0.126	ND 0.034	ND 0.065
PCBs	7.18	0.759	ND	63.0 D

<b>Lab ID:</b>	<b>10103-005</b>	<b>10103-006</b>	<b>10103-007</b>	<b>10103-008</b>
<b>Client ID:</b>	<b>II-38(1.0-2.0)</b>	<b>II-38(2.0-3.0)</b>	<b>JJ-39(0-1.0)</b>	<b>JJ-39(1.0-2.0)</b>
<b>Depth:</b>	<b>1.0/2.0</b>	<b>2.0/3.0</b>	<b>0/1.0</b>	<b>1.0/2.0</b>
<b>Matrix:</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>
<b>Sampled Date</b>	<b>10/10/13</b>	<b>10/10/13</b>	<b>10/10/13</b>	<b>10/10/13</b>
<b>PARAMETER(Units)</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>
<b>PCB's (Units)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>	<b>(mg/Kg-ppm)</b>
Aroclor-1016	ND 0.088	ND 0.024	ND 0.125	ND 0.074
Aroclor-1221	ND 0.088	ND 0.024	ND 0.125	ND 0.074
Aroclor-1232	ND 0.088	ND 0.024	ND 0.125	ND 0.074
Aroclor-1242	ND 0.088	ND 0.024	ND 0.125	ND 0.074
Aroclor-1248	5.66 0.088	0.194 0.024	1.08 0.125	0.552 0.074
Aroclor-1254	ND 0.088	ND 0.024	ND 0.125	ND 0.074
Aroclor-1260	ND 0.088	ND 0.024	ND 0.125	ND 0.074
Aroclor-1262	ND 0.088	ND 0.024	ND 0.125	ND 0.074
Aroclor-1268	ND 0.088	ND 0.024	ND 0.125	ND 0.074
PCBs	5.66	0.194	1.08	0.552

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

**INTEGRATED ANALYTICAL LABORATORIES, LLC.**

**SUMMARY REPORT**

**Client: JMC Environmental Consultants**

**Project: ARSYNCO**

**Lab Case No.: E13-10103**

	<b>Lab ID:</b>	<b>10103-009</b>	<b>10103-010</b>	<b>10103-011</b>
	<b>Client ID:</b>	<b>II-35R(5.0-6.0)</b>	<b>II-34N(4.0-5.0)</b>	<b>II-34N(6.0-7.0)</b>
	<b>Depth:</b>	<b>5.0/6.0</b>	<b>4.0/5.0</b>	<b>6.0/7.0</b>
	<b>Matrix:</b>	<b>Soil</b>	<b>Soil</b>	<b>Soil</b>
	<b>Sampled Date</b>	<b>10/10/13</b>	<b>10/10/13</b>	<b>10/10/13</b>
<b>PARAMETER(Units)</b>		<b>Conc Q MDL</b>	<b>Conc Q MDL</b>	<b>Conc Q MDL</b>
<b>PCB's (Units)</b>		<i>(mg/Kg-ppm)</i>	<i>(mg/Kg-ppm)</i>	<i>(mg/Kg-ppm)</i>
Aroclor-1016		ND 0.020	ND 0.021	ND 0.020
Aroclor-1221		ND 0.020	ND 0.021	ND 0.020
Aroclor-1232		ND 0.020	ND 0.021	ND 0.020
Aroclor-1242		ND 0.020	ND 0.021	ND 0.020
Aroclor-1248		ND 0.020	16.2 D 0.104	0.597 0.020
Aroclor-1254		ND 0.020	ND 0.021	ND 0.020
Aroclor-1260		ND 0.020	ND 0.021	ND 0.020
Aroclor-1262		ND 0.020	ND 0.021	ND 0.020
Aroclor-1268		ND 0.020	ND 0.021	ND 0.020
<b>PCBs</b>		<b>ND</b>	<b>16.2 D</b>	<b>0.597</b>

ND = Analyzed for but Not Detected at the MDL

D = The compound was reported from the Diluted analysis

## ANALYTICAL RESULTS

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-001  
 Client ID: JJ-38(0-  
 Date Received: 10/10/2013  
 Date Extracted: 10/16/2013  
 Date Analyzed: 10/17/2013  
 Data file: R4806.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.10g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 78.8

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.185	0.074
Aroclor-1221	ND		0.185	0.074
Aroclor-1232	ND		0.185	0.074
Aroclor-1242	ND		0.185	0.074
Aroclor-1248	3.80		0.185	0.074
Aroclor-1254	3.38		0.185	0.074
Aroclor-1260	ND		0.185	0.074
Aroclor-1262	ND		0.185	0.074
Aroclor-1268	ND		0.185	0.074
PCBs	7.18		0.185	0.074

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10103-002  
Client ID: JJ-38(1.  
Date Received: 10/10/2013  
Date Extracted: 10/16/2013  
Date Analyzed: 10/17/2013  
Data file: R4807.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.18g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: 87.7

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.314	0.126
Aroclor-1221	ND		0.314	0.126
Aroclor-1232	ND		0.314	0.126
Aroclor-1242	ND		0.314	0.126
Aroclor-1248	0.759		0.314	0.126
Aroclor-1254	ND		0.314	0.126
Aroclor-1260	ND		0.314	0.126
Aroclor-1262	ND		0.314	0.126
Aroclor-1268	ND		0.314	0.126
PCBs	0.759		0.314	0.126

D --- Dilution Performed  
J --- Value Less than RL & great than MDL  
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-003  
 Client ID: JJ-38(2).  
 Date Received: 10/10/2013  
 Date Extracted: 10/16/2013  
 Date Analyzed: 10/17/2013  
 Data file: R4808.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.32g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 55.7

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.085	0.034
Aroclor-1221	ND		0.085	0.034
Aroclor-1232	ND		0.085	0.034
Aroclor-1242	ND		0.085	0.034
Aroclor-1248	ND		0.085	0.034
Aroclor-1254	ND		0.085	0.034
Aroclor-1260	ND		0.085	0.034
Aroclor-1262	ND		0.085	0.034
Aroclor-1268	ND		0.085	0.034
PCBs	ND		0.085	0.034

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-004  
 Client ID: II-38(0-  
 Date Received: 10/10/2013  
 Date Extracted: 10/16/2013  
 Date Analyzed: 10/17/2013  
 Data file: R4809.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.15g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 76.0

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.162	0.065
Aroclor-1221	ND		0.162	0.065
Aroclor-1232	ND		0.162	0.065
Aroclor-1242	ND		0.162	0.065
Aroclor-1248	50.7	E	0.162	0.065
Aroclor-1254	ND		0.162	0.065
Aroclor-1260	ND		0.162	0.065
Aroclor-1262	ND		0.162	0.065
Aroclor-1268	ND		0.162	0.065
PCBs	50.7	E	0.162	0.065

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-004DL  
 Client ID: II-38(0-  
 Date Received: 10/10/2013  
 Date Extracted: 10/16/2013  
 Date Analyzed: 10/18/2013  
 Data file: R4812.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.15g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 5  
 % Moisture: 76.0

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.809	0.324
Aroclor-1221	ND		0.809	0.324
Aroclor-1232	ND		0.809	0.324
Aroclor-1242	ND		0.809	0.324
Aroclor-1248	63.0	D	0.809	0.324
Aroclor-1254	ND		0.809	0.324
Aroclor-1260	ND		0.809	0.324
Aroclor-1262	ND		0.809	0.324
Aroclor-1268	ND		0.809	0.324
PCBs	63.0	D	0.809	0.324

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-005  
 Client ID: II-38(1.  
 Date Received: 10/10/2013  
 Date Extracted: 10/17/2013  
 Date Analyzed: 10/18/2013  
 Data file: Y2287.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 81.9

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.221	0.088
Aroclor-1221	ND		0.221	0.088
Aroclor-1232	ND		0.221	0.088
Aroclor-1242	ND		0.221	0.088
Aroclor-1248	5.66		0.221	0.088
Aroclor-1254	ND		0.221	0.088
Aroclor-1260	ND		0.221	0.088
Aroclor-1262	ND		0.221	0.088
Aroclor-1268	ND		0.221	0.088
PCBs	5.66		0.221	0.088

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-006  
 Client ID: II-38(2)  
 Date Received: 10/10/2013  
 Date Extracted: 10/17/2013  
 Date Analyzed: 10/18/2013  
 Data file: Y2288.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 33.0

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.060	0.024
Aroclor-1221	ND		0.060	0.024
Aroclor-1232	ND		0.060	0.024
Aroclor-1242	ND		0.060	0.024
Aroclor-1248	0.194		0.060	0.024
Aroclor-1254	ND		0.060	0.024
Aroclor-1260	ND		0.060	0.024
Aroclor-1262	ND		0.060	0.024
Aroclor-1268	ND		0.060	0.024
PCBs	0.194		0.060	0.024

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-007  
 Client ID: JJ-39(0-  
 Date Received: 10/10/2013  
 Date Extracted: 10/17/2013  
 Date Analyzed: 10/18/2013  
 Data file: Y2289.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 87.2

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.313	0.125
Aroclor-1221	ND		0.313	0.125
Aroclor-1232	ND		0.313	0.125
Aroclor-1242	ND		0.313	0.125
Aroclor-1248	1.08		0.313	0.125
Aroclor-1254	ND		0.313	0.125
Aroclor-1260	ND		0.313	0.125
Aroclor-1262	ND		0.313	0.125
Aroclor-1268	ND		0.313	0.125
PCBs	1.08		0.313	0.125

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-008  
 Client ID: JJ-39(1.  
 Date Received: 10/10/2013  
 Date Extracted: 10/17/2013  
 Date Analyzed: 10/18/2013  
 Data file: Y2290.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 78.4

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.185	0.074
Aroclor-1221	ND		0.185	0.074
Aroclor-1232	ND		0.185	0.074
Aroclor-1242	ND		0.185	0.074
Aroclor-1248	0.552		0.185	0.074
Aroclor-1254	ND		0.185	0.074
Aroclor-1260	ND		0.185	0.074
Aroclor-1262	ND		0.185	0.074
Aroclor-1268	ND		0.185	0.074
PCBs	0.552		0.185	0.074

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-009  
 Client ID: II-35R(5)  
 Date Received: 10/10/2013  
 Date Extracted: 10/17/2013  
 Date Analyzed: 10/18/2013  
 Data file: Y2291.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 21.4

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.051	0.020
Aroclor-1221	ND		0.051	0.020
Aroclor-1232	ND		0.051	0.020
Aroclor-1242	ND		0.051	0.020
Aroclor-1248	ND		0.051	0.020
Aroclor-1254	ND		0.051	0.020
Aroclor-1260	ND		0.051	0.020
Aroclor-1262	ND		0.051	0.020
Aroclor-1268	ND		0.051	0.020
PCBs	ND		0.051	0.020

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-010  
 Client ID: II-34N(4)  
 Date Received: 10/10/2013  
 Date Extracted: 10/17/2013  
 Date Analyzed: 10/18/2013  
 Data file: Y2292.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 23.2

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.052	0.021
Aroclor-1221	ND		0.052	0.021
Aroclor-1232	ND		0.052	0.021
Aroclor-1242	ND		0.052	0.021
Aroclor-1248	14.0	E	0.052	0.021
Aroclor-1254	ND		0.052	0.021
Aroclor-1260	ND		0.052	0.021
Aroclor-1262	ND		0.052	0.021
Aroclor-1268	ND		0.052	0.021
PCBs	14.0	E	0.052	0.021

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: E13-10103-010DL  
Client ID: II-34N(4)  
Date Received: 10/10/2013  
Date Extracted: 10/17/2013  
Date Analyzed: 10/18/2013  
Data file: Y2297.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.00g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 5  
% Moisture: 23.2

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.260	0.104
Aroclor-1221	ND		0.260	0.104
Aroclor-1232	ND		0.260	0.104
Aroclor-1242	ND		0.260	0.104
Aroclor-1248	16.2	D	0.260	0.104
Aroclor-1254	ND		0.260	0.104
Aroclor-1260	ND		0.260	0.104
Aroclor-1262	ND		0.260	0.104
Aroclor-1268	ND		0.260	0.104
PCBs	16.2	D	0.260	0.104

D --- Dilution Performed  
J --- Value Less than RL & great than MDL  
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-011  
 Client ID: II-34N(6)  
 Date Received: 10/10/2013  
 Date Extracted: 10/17/2013  
 Date Analyzed: 10/18/2013  
 Data file: Y2293.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: 21.7

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.051	0.020
Aroclor-1221	ND		0.051	0.020
Aroclor-1232	ND		0.051	0.020
Aroclor-1242	ND		0.051	0.020
Aroclor-1248	0.597		0.051	0.020
Aroclor-1254	ND		0.051	0.020
Aroclor-1260	ND		0.051	0.020
Aroclor-1262	ND		0.051	0.020
Aroclor-1268	ND		0.051	0.020
PCBs	0.597		0.051	0.020

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: E13-10103-012  
 Client ID: FB-19  
 Date Received: 10/10/2013  
 Date Extracted: 10/14/2013  
 Date Analyzed: 10/15/2013  
 Data file: R4778.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 1000ml  
 Matrix-Units: Aqueous-mg/L (ppm)  
 Dilution Factor: 1  
 % Moisture: 100

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.00005	0.00002
Aroclor-1221	ND		0.00005	0.00002
Aroclor-1232	ND		0.00005	0.00002
Aroclor-1242	ND		0.00005	0.00002
Aroclor-1248	ND		0.00005	0.00002
Aroclor-1254	ND		0.00005	0.00002
Aroclor-1260	ND		0.00005	0.00002
Aroclor-1262	ND		0.00005	0.00002
Aroclor-1268	ND		0.00005	0.00002
PCBs	ND		0.00005	0.00002

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

PCB DATA

PCB QC SUMMARY

## PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 10/15/2013

Client ID	Lab	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
	Sample ID		% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKA131014-14	AQUEOUS	89		96		102		122	
FB-18	E13-10033-015	AQUEOUS	91		94		104		119	
FB-19	E13-10103-012	AQUEOUS	79		84		92		103	
FB-20	E13-10150-016	AQUEOUS	91		96		105		121	
PCB	LCSA131014-14	AQUEOUS	90		97		102		114	
PCB	LCSDA131014-14	AQUEOUS	86		94		97		114	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

<u>Soil</u>	<u>Aqueous</u>
30-150	30-150
30-150	30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB SURROGATE PERCENT RECOVERY SUMMARY**

**Date Analyzed:**     10/17/2013

Client ID	Lab	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
	Sample ID		% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS131016-07	SOIL	94		113		110		142	
WH61-POS	E13-10241-001	SOIL	112		121		130		147	
WH61-POS	E13-10241-002	SOIL	114		118		130		141	
WH61-POS	E13-10241-003	SOIL	115		118		131		136	
WH61-POS	E13-10241-004	SOIL	120		122		136		136	
WH61-POS	E13-10241-005	SOIL	116		122		132		142	
HLR-66C-	E13-10127-001	SOLID	93		112		100		125	
HLR-66C-	E13-10127-002	SOLID	91		112		106		127	
HLR-66C-	E13-10127-003	SOLID	72		104		85		108	
HLR-66C-	E13-10127-004	SOLID	90		96		103		122	
PCB	10127-001MS	SOLID	94		102		101		124	
PCB	10127-001MSD	SOLID	94		109		101		133	
PCB	LCSS131016-07	SOIL	96		112		111		132	
HLR-66-1	E13-10122-005	SOLID	96		109		106		135	
HLR-66-1	E13-10122-006	SOLID	92		100		102		147	
HLR-66-1	E13-10122-007	SOLID	95		102		104		142	
HLR-66-1	E13-10122-008	SOLID	95		106		106		129	
HLR-66-1	E13-10122-009	SOLID	95		109		111		131	
HLR-66-1	E13-10122-010	SOLID	96		107		111		135	
HLR-66-1	E13-10122-011	SOLID	65		58		102		126	
JJ-38(0-	E13-10103-001	SOIL	126		138		147		180	M
JJ-38(1.	E13-10103-002	SOIL	130		147		154	M	163	M
JJ-38(2.	E13-10103-003	SOIL	117		132		136		144	
II-38(0-	E13-10103-004	SOIL	125		136		145		192	M
II-38(0-	E13-10103-004DL	SOIL	135		145		143		192	M

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**

**DCB = Decachlorobiphenyl**

<u>Soil</u>	<u>Aqueous</u>
30-150	30-150
30-150	30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB SURROGATE PERCENT RECOVERY SUMMARY**

**Date Analyzed:**     10/18/2013

Client ID	Lab Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS131017-11	SOIL	96		85		116		97	
PCB	LCSS131017-11	SOIL	97		93		100		108	
IB-3A/1.	E13-10149-005	SOIL	95		83		114		103	
PCB	10149-005MS	SOIL	97		93		99		115	
PCB	10149-005MSD	SOIL	96		91		98		108	
H-8C/5-1	E13-10148-001	SOIL	97		90		99		114	
H-9C/5-1	E13-10148-003	SOIL	95		89		99		105	
H-10C/5-	E13-10148-005	SOIL	96		92		99		107	
WC-539-1	E13-10264-001	SOLID	90		89		95		110	
WC-539-2	E13-10264-002	SOLID	81		83		86		98	
WC-535/0	E13-10264-003	SOLID	91		101		95		112	
WC-537/0	E13-10264-004	SOLID	72		86		77		104	
W-1	E13-10231-001	SOIL	96		89		101		112	
HLR-66B-	E13-10123-007	SOLID	91		87		94		104	
II-38(1.	E13-10103-005	SOIL	111		130		133		144	
II-38(2.	E13-10103-006	SOIL	104		103		110		121	
JJ-39(0-	E13-10103-007	SOIL	119		118		137		149	
JJ-39(1.	E13-10103-008	SOIL	120		115		133		146	
II-35R(5	E13-10103-009	SOIL	101		91		105		104	
II-34N(4	E13-10103-010	SOIL	99		96		105		119	
II-34N(6	E13-10103-011	SOIL	100		91		104		109	
S-1	E13-10133-001	SOIL	96		90		100		109	
S-2	E13-10133-002	SOIL	101		90		105		127	
IB-1A/1.	E13-10149-001	SOIL	96		93		100		129	
II-34N(4	E13-10103-010DL	SOIL	115		109		119		134	

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**

**DCB = Decachlorobiphenyl**

	<u>Soil</u>	<u>Aqueous</u>
	30-150	30-150
	30-150	30-150

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB METHOD BLANK SUMMARY**

Lab File ID: R4776.D

Instrument ID: GC-R

Date Extracted: 10/15/2013

Matrix: AQUEOUS

Date Analyzed: 10/15/2013

Time Analyzed: 10:20

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
FB-18	E13-10033-015	10/15/2013	10:37
FB-19	E13-10103-012	10/15/2013	10:59
FB-20	E13-10150-016	10/15/2013	11:16
PCB	LCSA131014-14	10/15/2013	11:34
PCB	LCSDA131014-14	10/15/2013	11:51

**SOIL PCB LCS ACCURACY RECOVERY**

Matrix spike Lab sample ID: LCSS131016-07

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	548.4	110	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	628.9	126	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

**SOIL PCB LCS ACCURACY RECOVERY**

Matrix spike Lab sample ID: LCSS131017-11

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	577.6	116	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	631.1	126	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

**AQUEOUS PCB LCS/LCSD ACCURACY RECOVERY**

Matrix spike Lab sample ID: BLKA131014-14

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	LCS CONC. (ug/L)	LCS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	454.4	91	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	572.5	115	40 - 140

Compound	SAMPLE CONC. (ug/L)	LCSD CONC. (ug/L)	LCSD % # REC	% RPD #	QC LIMITS RPD   REC.	
<b>Aroclor-1016</b>	0.0	454.7	91	0	50	40 - 140
<b>Aroclor-1260</b>	0.0	516.4	103	11	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD:  0  out of  2  outside limits

Spike Recovery:  0  out of  4  outside limits

**SOIL PCB MS/MSD ACCURACY RECOVERY**

Matrix spike Lab sample ID: E13-10127-001

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	541.4	108	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	661.0	132	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD		QC LIMITS	
			#	% REC	RPD	REC.
<b>Aroclor-1016</b>	0.0	549.2	110	2	50	40 - 140
<b>Aroclor-1260</b>	0.0	640.6	128	3	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD:  0  out of  2  outside limits

Spike Recovery:  0  out of  4  outside limits

**SOIL PCB MS/MSD ACCURACY RECOVERY**

Matrix spike Lab sample ID: E13-10149-005

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
<b>Aroclor-1016</b>	500.0	0.0	566.6	113	40 - 140
<b>Aroclor-1260</b>	500.0	0.0	615.6	123	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % #	MSD % RPD #	QC LIMITS	
					RPD	REC.
<b>Aroclor-1016</b>	0.0	543.3	109	4	50	40 - 140
<b>Aroclor-1260</b>	0.0	560.7	112	9	50	40 - 140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

**PCB METHOD BLANK SUMMARY**

Lab File ID: R4784.D Instrument ID: GC-R  
Date Extracted: 10/16/2013 Matrix: SOIL  
Date Analyzed: 10/17/2013 Time Analyzed: 11:39

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
WH61-POS	E13-10241-001	10/17/2013	11:57
WH61-POS	E13-10241-002	10/17/2013	12:14
WH61-POS	E13-10241-003	10/17/2013	12:32
WH61-POS	E13-10241-004	10/17/2013	12:49
WH61-POS	E13-10241-005	10/17/2013	13:07
HLR-66C-	E13-10127-001	10/17/2013	13:59
HLR-66C-	E13-10127-002	10/17/2013	14:17
HLR-66C-	E13-10127-003	10/17/2013	14:34
HLR-66C-	E13-10127-004	10/17/2013	14:52
PCB	10127-001MS	10/17/2013	15:09
PCB	10127-001MSD	10/17/2013	15:26
PCB	LCSS131016-07	10/17/2013	15:44
HLR-66-1	E13-10122-005	10/17/2013	16:19
HLR-66-1	E13-10122-006	10/17/2013	16:36
HLR-66-1	E13-10122-007	10/17/2013	16:53
HLR-66-1	E13-10122-008	10/17/2013	17:11
HLR-66-1	E13-10122-009	10/17/2013	17:28
HLR-66-1	E13-10122-010	10/17/2013	17:46
HLR-66-1	E13-10122-011	10/17/2013	18:03
JJ-38(0-	E13-10103-001	10/17/2013	18:56
JJ-38(1.	E13-10103-002	10/17/2013	19:13
JJ-38(2.	E13-10103-003	10/17/2013	19:30
II-38(0-	E13-10103-004	10/17/2013	19:48
II-38(0-	E13-10103-004DL	10/18/2013	08:29

**PCB METHOD BLANK SUMMARY**

Lab File ID: Y2272.D Instrument ID: GC-Y  
Date Extracted: 10/17/2013 Matrix: SOIL  
Date Analyzed: 10/18/2013 Time Analyzed: 09:32

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

<b>Client ID</b>	<b>Lab Sample ID</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>
PCB	LCSS131017-11	10/18/2013	09:49
IB-3A/1.	E13-10149-005	10/18/2013	10:19
PCB	10149-005MS	10/18/2013	10:36
PCB	10149-005MSD	10/18/2013	10:54
H-8C/5-1	E13-10148-001	10/18/2013	11:11
H-9C/5-1	E13-10148-003	10/18/2013	11:28
H-10C/5-	E13-10148-005	10/18/2013	11:46
WC-539-1	E13-10264-001	10/18/2013	12:03
WC-539-2	E13-10264-002	10/18/2013	12:21
WC-535/0	E13-10264-003	10/18/2013	12:38
WC-537/0	E13-10264-004	10/18/2013	12:55
W-1	E13-10231-001	10/18/2013	13:30
HLR-66B-	E13-10123-007	10/18/2013	13:48
II-38(1.	E13-10103-005	10/18/2013	14:05
II-38(2.	E13-10103-006	10/18/2013	14:22
JJ-39(0-	E13-10103-007	10/18/2013	14:40
JJ-39(1.	E13-10103-008	10/18/2013	14:57
II-35R(5	E13-10103-009	10/18/2013	15:15
II-34N(4	E13-10103-010	10/18/2013	15:32
II-34N(6	E13-10103-011	10/18/2013	15:50
S-1	E13-10133-001	10/18/2013	16:07
S-2	E13-10133-002	10/18/2013	16:42
IB-1A/1.	E13-10149-001	10/18/2013	16:59
II-34N(4	E13-10103-010DL	10/18/2013	17:34

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R

GC Column (1st): DB-5

Data File: R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.20	3.20	3.20	3.20	3.20	3.20	3.13	3.27
Aroclor-1016 {2}	4.03	4.03	4.03	4.03	4.03	4.03	3.96	4.10
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.59	4.59	4.52	4.66
Aroclor-1016 {4}	5.10	5.10	5.09	5.09	5.09	5.09	5.02	5.16
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.11				2.04	2.18
Aroclor-1221 {2}			3.00				2.93	3.07
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.20				3.13	3.27
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.20				3.13	3.27
Aroclor-1232 {2}			4.03				3.96	4.10
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.03				3.96	4.10
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.28				6.21	6.35
Aroclor-1248			4.44				4.36	4.52
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				6.75	6.91
Aroclor-1254 {3}			7.00				6.91	7.09
Aroclor-1254 {4}			7.45				7.36	7.54
Aroclor-1254 {5}			8.29				8.20	8.38
Aroclor-1260	8.29	8.29	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.97	8.97	8.97	8.96	8.97	8.07	9.87
Aroclor-1260 {3}	9.45	9.45	9.45	9.45	9.45	9.45	8.55	10.35
Aroclor-1260 {4}	9.94	9.94	9.94	9.94	9.93	9.94	9.04	10.84
Aroclor-1260 {5}	11.01	11.01	11.00	11.00	11.00	11.00	10.10	11.90

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R

GC Column (1st): DB-5

Data File: R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	238956	238426	221016	197053	206327	220356	8.53
Aroclor-1016 {2}	322859	323495	301808	271511	285729	301080	7.59
Aroclor-1016 {3}	416139	415483	390316	353118	373529	389717	6.98
Aroclor-1016 {4}	184507	199920	185895	164765	172191	181456	7.47
Aroclor-1016 {5}	322867	320546	311488	282232	300555	307538	5.41
Aroclor-1221			114432				
Aroclor-1221 {2}			175472				
Aroclor-1221 {3}			116606				
Aroclor-1221 {4}			409677				
Aroclor-1221 {5}			91214				
Aroclor-1232			299110				
Aroclor-1232 {2}			173564				
Aroclor-1232 {3}			151425				
Aroclor-1232 {4}			169583				
Aroclor-1232 {5}			215217				
Aroclor-1242			271243				
Aroclor-1242 {2}			171172				
Aroclor-1242 {3}			243002				
Aroclor-1242 {4}			368896				
Aroclor-1242 {5}			334402				
Aroclor-1248			645139				
Aroclor-1248 {2}			371041				
Aroclor-1248 {3}			488705				
Aroclor-1248 {4}			791653				
Aroclor-1248 {5}			569723				
Aroclor-1254			752030				
Aroclor-1254 {2}			480900				
Aroclor-1254 {3}			903710				
Aroclor-1254 {4}			935745				
Aroclor-1254 {5}			852809				
Aroclor-1260	809353	853975	887981	812983	880858	849030	4.34
Aroclor-1260 {2}	404014	408219	409739	376288	404609	400574	3.44
Aroclor-1260 {3}	1040454	1052855	1056746	954425	1033313	1027559	4.08
Aroclor-1260 {4}	489784	509425	533411	482655	530867	509228	4.54
Aroclor-1260 {5}	243012	247120	249016	215605	232018	237354	5.83
<b>Average %RSD</b>							<b>5.82</b>

**AROCLOR INITIAL CALIBRATION SUMMARY**

Date Analyzed: 09/25/2013

Instrument ID: GC-R  
 GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	RT OF STANDARDS					MEAN RT	RT WI NDO W	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.37	3.37	3.37	3.37	3.37	3.37	3.30	3.44
Aroclor-1016 {2}	3.94	3.93	3.94	3.94	3.94	3.94	3.87	4.01
Aroclor-1016 {3}	4.65	4.65	4.65	4.65	4.65	4.65	4.58	4.72
Aroclor-1016 {4}	4.85	4.85	4.85	4.85	4.85	4.85	4.78	4.92
Aroclor-1016 {5}	5.02	5.02	5.02	5.02	5.02	5.02	4.95	5.09
Aroclor-1221			2.16				2.09	2.23
Aroclor-1221 {2}			3.07				3.00	3.14
Aroclor-1221 {3}			3.29				3.22	3.36
Aroclor-1221 {4}			3.38				3.31	3.45
Aroclor-1221 {5}			4.66				4.59	4.73
Aroclor-1232			3.37				3.30	3.44
Aroclor-1232 {2}			4.30				4.23	4.37
Aroclor-1232 {3}			4.85				4.78	4.92
Aroclor-1232 {4}			5.02				4.95	5.09
Aroclor-1232 {5}			5.60				5.53	5.67
Aroclor-1242			4.30				4.23	4.37
Aroclor-1242 {2}			5.02				4.95	5.09
Aroclor-1242 {3}			5.60				5.53	5.67
Aroclor-1242 {4}			5.76				5.69	5.83
Aroclor-1242 {5}			6.29				6.22	6.36
Aroclor-1248			4.65				4.57	4.73
Aroclor-1248 {2}			5.22				5.14	5.30
Aroclor-1248 {3}			5.60				5.52	5.68
Aroclor-1248 {4}			5.76				5.68	5.84
Aroclor-1248 {5}			6.10				6.02	6.18
Aroclor-1254			6.59				6.51	6.67
Aroclor-1254 {2}			7.16				7.08	7.24
Aroclor-1254 {3}			7.59				7.50	7.68
Aroclor-1254 {4}			7.78				7.69	7.87
Aroclor-1254 {5}			8.59				8.50	8.68
Aroclor-1260	7.34	7.34	7.34	7.34	7.34	7.34	6.44	8.24
Aroclor-1260 {2}	7.59	7.59	7.59	7.59	7.59	7.59	6.69	8.49
Aroclor-1260 {3}	9.18	9.18	9.18	9.18	9.18	9.18	8.28	10.08
Aroclor-1260 {4}	9.69	9.69	9.69	9.69	9.69	9.69	8.79	10.59
Aroclor-1260 {5}	10.27	10.28	10.27	10.27	10.27	10.27	9.37	11.17

## AROCLOL INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R  
GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	463482	443481	394672	349156	363575	402873	12.30
Aroclor-1016 {2}	972946	914219	800550	715484	745062	829652	13.30
Aroclor-1016 {3}	2003226	1895012	1794128	1625557	1725798	1808744	8.10
Aroclor-1016 {4}	874602	819805	758782	674981	705886	766811	10.64
Aroclor-1016 {5}	649705	630090	577596	516964	546780	584227	9.52
Aroclor-1221			205830				
Aroclor-1221 {2}			317677				
Aroclor-1221 {3}			197191				
Aroclor-1221 {4}			731933				
Aroclor-1221 {5}			137633				
Aroclor-1232			537368				
Aroclor-1232 {2}			201363				
Aroclor-1232 {3}			443054				
Aroclor-1232 {4}			336131				
Aroclor-1232 {5}			472241				
Aroclor-1242			308614				
Aroclor-1242 {2}			520959				
Aroclor-1242 {3}			687939				
Aroclor-1242 {4}			570896				
Aroclor-1242 {5}			1110996				
Aroclor-1248			1196272				
Aroclor-1248 {2}			1787378				
Aroclor-1248 {3}			1279375				
Aroclor-1248 {4}			1156522				
Aroclor-1248 {5}			630416				
Aroclor-1254			1449464				
Aroclor-1254 {2}			1140319				
Aroclor-1254 {3}			744926				
Aroclor-1254 {4}			1087519				
Aroclor-1254 {5}			1595667				
Aroclor-1260	772842	717629	667601	596248	636006	678065	10.20
Aroclor-1260 {2}	1203303	1137574	1003928	894435	938753	1035599	12.67
Aroclor-1260 {3}	918251	908290	856575	776950	839956	860004	6.64
Aroclor-1260 {4}	1869490	1994218	1907750	1702352	1827485	1860259	5.78
Aroclor-1260 {5}	1341947	1427312	1364592	1211105	1295946	1328180	6.08
<b>Average %RSD</b>							<b>9.52</b>

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R

GC Column (1st): DB-5

Data File: R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	RT OF STANDARDS					MEAN RT	RT WI N DOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.66				8.54	8.78
Aroclor-1262 {2}			9.45				9.33	9.57
Aroclor-1262 {3}			10.08				9.96	10.20
Aroclor-1262 {4}			10.17				10.05	10.29
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.16				10.04	10.28
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	RT OF STANDARDS					MEAN RT	RT WI N DOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.17				9.05	9.29
Aroclor-1262 {2}			9.69				9.57	9.81
Aroclor-1262 {3}			10.18				10.06	10.30
Aroclor-1262 {4}			10.27				10.15	10.39
Aroclor-1262 {5}			10.86				10.74	10.98
Aroclor-1268			10.18				10.06	10.30
Aroclor-1268 {2}			10.26				10.14	10.38
Aroclor-1268 {3}			10.50				10.38	10.62
Aroclor-1268 {4}			10.65				10.53	10.77
Aroclor-1268 {5}			11.73				11.61	11.85

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-R

GC Column (1st): DB-5

Data File: R4398.D R4397.D R4396.D R4395.D R4394.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			412256				
Aroclor-1262 {2}			1603317				
Aroclor-1262 {3}			600064				
Aroclor-1262 {4}			726266				
Aroclor-1262 {5}			562568				
Aroclor-1268			1631126				
Aroclor-1268 {2}			1792929				
Aroclor-1268 {3}			1398759				
Aroclor-1268 {4}			384285				
Aroclor-1268 {5}			4463165				

GC Column (2nd): DB-1701P

Data File: R4398.C R4397.C R4396.C R4395.C R4394.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1324749				
Aroclor-1262 {2}			3035817				
Aroclor-1262 {3}			967719				
Aroclor-1262 {4}			2127918				
Aroclor-1262 {5}			426507				
Aroclor-1268			2933662				
Aroclor-1268 {2}			3178941				
Aroclor-1268 {3}			2495408				
Aroclor-1268 {4}			657283				
Aroclor-1268 {5}			7870801				

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/15/2013 Instrument ID: GC-R

Data File: R4775.D GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	220356	208089	5.57
Aroclor-1016 {2}	4.03	3.96	4.10	301080	281017	6.66
Aroclor-1016 {3}	4.59	4.52	4.66	389717	366009	6.08
Aroclor-1016 {4}	5.09	5.02	5.16	181456	180181	0.70
Aroclor-1016 {5}	5.49	5.42	5.56	307538	287981	6.36
Aroclor-1260	8.29	7.39	9.19	849030	845779	0.38
Aroclor-1260 {2}	8.97	8.07	9.87	400574	390269	2.57
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	1019021	0.83
Aroclor-1260 {4}	9.94	9.04	10.84	509228	521801	2.47
Aroclor-1260 {5}	11.00	10.10	11.90	237354	246543	3.87

Data File: R4775.C GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	402873	436470	8.34
Aroclor-1016 {2}	3.93	3.87	4.01	829652	875148	5.48
Aroclor-1016 {3}	4.65	4.58	4.72	1808744	1976289	9.26
Aroclor-1016 {4}	4.85	4.78	4.92	766811	826739	7.82
Aroclor-1016 {5}	5.02	4.95	5.09	584227	636567	8.96
Aroclor-1260	7.34	6.44	8.24	678065	706586	4.21
Aroclor-1260 {2}	7.59	6.69	8.49	1035599	1117965	7.95
Aroclor-1260 {3}	9.17	8.28	10.08	860004	955820	11.14
Aroclor-1260 {4}	9.68	8.79	10.59	1860259	2191155	17.79
Aroclor-1260 {5}	10.26	9.37	11.17	1328180	1590819	19.77

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/15/2013 Instrument ID: GC-R

Data File: R4782.D GC Column (1st): DB-5

Compound	RT	RT WI N DOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	220356	192356	12.71
Aroclor-1016 {2}	4.03	3.96	4.10	301080	259848	13.69
Aroclor-1016 {3}	4.59	4.52	4.66	389717	341942	12.26
Aroclor-1016 {4}	5.09	5.02	5.16	181456	165563	8.76
Aroclor-1016 {5}	5.49	5.42	5.56	307538	271222	11.81
Aroclor-1260	8.29	7.39	9.19	849030	822669	3.10
Aroclor-1260 {2}	8.97	8.07	9.87	400574	389112	2.86
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	1015316	1.19
Aroclor-1260 {4}	9.94	9.04	10.84	509228	521335	2.38
Aroclor-1260 {5}	11.00	10.10	11.90	237354	244492	3.01

Data File: R4782.C GC Column (2nd): DB-1701P

Compound	RT	RT WI N DOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.30	3.44	402873	416832	3.46
Aroclor-1016 {2}	3.94	3.87	4.01	829652	830196	0.07
Aroclor-1016 {3}	4.66	4.58	4.72	1808744	1895136	4.78
Aroclor-1016 {4}	4.86	4.78	4.92	766811	791363	3.20
Aroclor-1016 {5}	5.03	4.95	5.09	584227	610663	4.53
Aroclor-1260	7.35	6.44	8.24	678065	726926	7.21
Aroclor-1260 {2}	7.60	6.69	8.49	1035599	1087553	5.02
Aroclor-1260 {3}	9.18	8.28	10.08	860004	985861	14.63
Aroclor-1260 {4}	9.69	8.79	10.59	1860259	2191442	17.80
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1550794	16.76

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/17/2013 Instrument ID: GC-R

Data File: R4783.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	220356	183373	16.78
Aroclor-1016 {2}	4.04	3.96	4.10	301080	248018	17.62
Aroclor-1016 {3}	4.59	4.52	4.66	389717	326107	16.32
Aroclor-1016 {4}	5.10	5.02	5.16	181456	165046	9.04
Aroclor-1016 {5}	5.49	5.42	5.56	307538	260165	15.40
Aroclor-1260	8.30	7.39	9.19	849030	773956	8.84
Aroclor-1260 {2}	8.97	8.07	9.87	400574	364262	9.06
Aroclor-1260 {3}	9.46	8.55	10.35	1027559	980974	4.53
Aroclor-1260 {4}	9.94	9.04	10.84	509228	491268	3.53
Aroclor-1260 {5}	11.01	10.10	11.90	237354	241879	1.91

Data File: R4783.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.38	3.30	3.44	402873	412256	2.33
Aroclor-1016 {2}	3.94	3.87	4.01	829652	797261	3.90
Aroclor-1016 {3}	4.66	4.58	4.72	1808744	1806111	0.15
Aroclor-1016 {4}	4.86	4.78	4.92	766811	773118	0.82
Aroclor-1016 {5}	5.03	4.95	5.09	584227	592954	1.49
Aroclor-1260	7.35	6.44	8.24	678065	800981	18.13
Aroclor-1260 {2}	7.60	6.69	8.49	1035599	1079680	4.26
Aroclor-1260 {3}	9.18	8.28	10.08	860004	970212	12.81
Aroclor-1260 {4}	9.69	8.79	10.59	1860259	2216823	19.17
Aroclor-1260 {5}	10.28	9.37	11.17	1328180	1572523	18.40

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/17/2013 Instrument ID: GC-R

Data File: R4798.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	220356	182315	17.26
Aroclor-1016 {2}	4.04	3.96	4.10	301080	247302	17.86
Aroclor-1016 {3}	4.59	4.52	4.66	389717	325161	16.56
Aroclor-1016 {4}	5.10	5.02	5.16	181456	163847	9.70
Aroclor-1016 {5}	5.49	5.42	5.56	307538	265015	13.83
Aroclor-1260	8.30	7.39	9.19	849030	774150	8.82
Aroclor-1260 {2}	8.97	8.07	9.87	400574	362614	9.48
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	966908	5.90
Aroclor-1260 {4}	9.94	9.04	10.84	509228	480435	5.65
Aroclor-1260 {5}	11.01	10.10	11.90	237354	236169	0.50

Data File: R4798.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	402873	401309	0.39
Aroclor-1016 {2}	3.93	3.87	4.01	829652	780385	5.94
Aroclor-1016 {3}	4.65	4.58	4.72	1808744	1775578	1.83
Aroclor-1016 {4}	4.85	4.78	4.92	766811	745441	2.79
Aroclor-1016 {5}	5.02	4.95	5.09	584227	573519	1.83
Aroclor-1260	7.34	6.44	8.24	678065	776928	14.58
Aroclor-1260 {2}	7.59	6.69	8.49	1035599	1036916	0.13
Aroclor-1260 {3}	9.17	8.28	10.08	860004	909796	5.79
Aroclor-1260 {4}	9.68	8.79	10.59	1860259	2150110	15.58
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1507963	13.54

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/17/2013 Instrument ID: GC-R

Data File: R4810.D GC Column (1st): DB-5

Compound	RT	RT WI N DOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	220356	191348	13.16
Aroclor-1016 {2}	4.04	3.96	4.10	301080	251332	16.52
Aroclor-1016 {3}	4.59	4.52	4.66	389717	332243	14.75
Aroclor-1016 {4}	5.10	5.02	5.16	181456	163919	9.66
Aroclor-1016 {5}	5.49	5.42	5.56	307538	263524	14.31
Aroclor-1260	8.30	7.39	9.19	849030	788392	7.14
Aroclor-1260 {2}	8.97	8.07	9.87	400574	358519	10.50
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	977006	4.92
Aroclor-1260 {4}	9.94	9.04	10.84	509228	491724	3.44
Aroclor-1260 {5}	11.01	10.10	11.90	237354	235281	0.87

Data File: R4810.C GC Column (2nd): DB-1701P

Compound	RT	RT WI N DOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	402873	409088	1.54
Aroclor-1016 {2}	3.93	3.87	4.01	829652	811187	2.23
Aroclor-1016 {3}	4.65	4.58	4.72	1808744	1842650	1.87
Aroclor-1016 {4}	4.85	4.78	4.92	766811	764691	0.28
Aroclor-1016 {5}	5.02	4.95	5.09	584227	592680	1.45
Aroclor-1260	7.34	6.44	8.24	678065	794920	17.23
Aroclor-1260 {2}	7.59	6.69	8.49	1035599	1044906	0.90
Aroclor-1260 {3}	9.17	8.28	10.08	860004	918560	6.81
Aroclor-1260 {4}	9.68	8.79	10.59	1860259	2175018	16.92
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1517152	14.23

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/18/2013 Instrument ID: GC-R

Data File: R4811.D GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	220356	195919	11.09
Aroclor-1016 {2}	4.03	3.96	4.10	301080	265004	11.98
Aroclor-1016 {3}	4.59	4.52	4.66	389717	350422	10.08
Aroclor-1016 {4}	5.10	5.02	5.16	181456	174054	4.08
Aroclor-1016 {5}	5.49	5.42	5.56	307538	277562	9.75
Aroclor-1260	8.30	7.39	9.19	849030	837822	1.32
Aroclor-1260 {2}	8.97	8.07	9.87	400574	379726	5.20
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	1041927	1.40
Aroclor-1260 {4}	9.94	9.04	10.84	509228	524679	3.03
Aroclor-1260 {5}	11.00	10.10	11.90	237354	253469	6.79

Data File: R4811.C GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	402873	419034	4.01
Aroclor-1016 {2}	3.93	3.87	4.01	829652	835962	0.76
Aroclor-1016 {3}	4.65	4.58	4.72	1808744	1903275	5.23
Aroclor-1016 {4}	4.85	4.78	4.92	766811	791568	3.23
Aroclor-1016 {5}	5.02	4.95	5.09	584227	610468	4.49
Aroclor-1260	7.34	6.44	8.24	678065	736216	8.58
Aroclor-1260 {2}	7.59	6.69	8.49	1035599	1125903	8.72
Aroclor-1260 {3}	9.17	8.28	10.08	860004	986649	14.73
Aroclor-1260 {4}	9.69	8.79	10.59	1860259	2210353	18.82
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1564534	17.80

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/18/2013 Instrument ID: GC-R

Data File: R4813.D GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.21	3.13	3.27	220356	183531	16.71
Aroclor-1016 {2}	4.04	3.96	4.10	301080	246896	18.00
Aroclor-1016 {3}	4.59	4.52	4.66	389717	325689	16.43
Aroclor-1016 {4}	5.10	5.02	5.16	181456	161573	10.96
Aroclor-1016 {5}	5.49	5.42	5.56	307538	256463	16.61
Aroclor-1260	8.30	7.39	9.19	849030	764065	10.01
Aroclor-1260 {2}	8.97	8.07	9.87	400574	351038	12.37
Aroclor-1260 {3}	9.45	8.55	10.35	1027559	989942	3.66
Aroclor-1260 {4}	9.94	9.04	10.84	509228	478330	6.07
Aroclor-1260 {5}	11.00	10.10	11.90	237354	249432	5.09

Data File: R4813.C GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	402873	385366	4.35
Aroclor-1016 {2}	3.93	3.87	4.01	829652	762803	8.06
Aroclor-1016 {3}	4.65	4.58	4.72	1808744	1726110	4.57
Aroclor-1016 {4}	4.85	4.78	4.92	766811	715975	6.63
Aroclor-1016 {5}	5.02	4.95	5.09	584227	551868	5.54
Aroclor-1260	7.34	6.44	8.24	678065	692073	2.07
Aroclor-1260 {2}	7.59	6.69	8.49	1035599	1129151	9.03
Aroclor-1260 {3}	9.17	8.28	10.08	860004	935879	8.82
Aroclor-1260 {4}	9.68	8.79	10.59	1860259	2083612	12.01
Aroclor-1260 {5}	10.27	9.37	11.17	1328180	1469127	10.61

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.23	3.23	3.23	3.23	3.23	3.23	3.16	3.30
Aroclor-1016 {2}	4.05	4.05	4.05	4.05	4.05	4.05	3.98	4.12
Aroclor-1016 {3}	4.60	4.60	4.60	4.60	4.60	4.60	4.53	4.67
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.02				2.95	3.09
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.22				3.15	3.29
Aroclor-1221 {5}			3.81				3.74	3.88
Aroclor-1232			3.23				3.16	3.30
Aroclor-1232 {2}			4.05				3.98	4.12
Aroclor-1232 {3}			4.71				4.64	4.78
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.05				3.98	4.12
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			5.99				5.92	6.06
Aroclor-1242 {5}			6.26				6.19	6.33
Aroclor-1248			4.45				4.37	4.53
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			5.99				5.91	6.07
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.82				6.74	6.90
Aroclor-1254 {3}			6.99				6.90	7.08
Aroclor-1254 {4}			7.42				7.33	7.51
Aroclor-1254 {5}			8.26				8.17	8.35
Aroclor-1260	8.26	8.26	8.26	8.26	8.26	8.26	7.36	9.16
Aroclor-1260 {2}	8.94	8.94	8.94	8.94	8.93	8.94	8.04	9.84
Aroclor-1260 {3}	9.41	9.41	9.41	9.41	9.41	9.41	8.51	10.31
Aroclor-1260 {4}	9.89	9.89	9.89	9.89	9.89	9.89	8.99	10.79
Aroclor-1260 {5}	10.95	10.95	10.95	10.95	10.95	10.95	10.05	11.85

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	464323	441679	382895	349177	333589	394332	14.46
Aroclor-1016 {2}	631313	643566	521731	477189	458454	546451	15.79
Aroclor-1016 {3}	806143	774449	662509	606621	589177	687780	14.26
Aroclor-1016 {4}	363540	363516	332688	305606	289774	331025	10.09
Aroclor-1016 {5}	628860	642038	551930	503774	487757	562872	12.52
Aroclor-1221			199877				
Aroclor-1221 {2}			313557				
Aroclor-1221 {3}			198732				
Aroclor-1221 {4}			681302				
Aroclor-1221 {5}			164392				
Aroclor-1232			508390				
Aroclor-1232 {2}			304333				
Aroclor-1232 {3}			272852				
Aroclor-1232 {4}			292921				
Aroclor-1232 {5}			379208				
Aroclor-1242			445331				
Aroclor-1242 {2}			289404				
Aroclor-1242 {3}			394283				
Aroclor-1242 {4}			595594				
Aroclor-1242 {5}			525307				
Aroclor-1248			1072563				
Aroclor-1248 {2}			618287				
Aroclor-1248 {3}			795414				
Aroclor-1248 {4}			1263310				
Aroclor-1248 {5}			998553				
Aroclor-1254			1250957				
Aroclor-1254 {2}			821044				
Aroclor-1254 {3}			1480779				
Aroclor-1254 {4}			1606933				
Aroclor-1254 {5}			1429697				
Aroclor-1260	1799563	1887490	1561779	1407648	1377152	1606726	14.27
Aroclor-1260 {2}	884011	896189	732678	641350	641368	759119	16.51
Aroclor-1260 {3}	2064481	2110924	1815054	1604501	1536563	1826305	14.25
Aroclor-1260 {4}	982911	1147466	964107	838195	828743	952284	13.64
Aroclor-1260 {5}	415694	477377	462681	369882	339327	412992	14.28
<b>Average %RSD</b>							<b>14.01</b>

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS					MEAN RT	RT WI NDO W	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.76	3.76	3.76	3.76	3.76	3.76	3.69	3.83
Aroclor-1016 {2}	4.36	4.36	4.36	4.36	4.36	4.36	4.29	4.43
Aroclor-1016 {3}	5.11	5.11	5.11	5.11	5.11	5.11	5.04	5.18
Aroclor-1016 {4}	5.32	5.32	5.32	5.32	5.32	5.32	5.25	5.39
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.44				2.37	2.51
Aroclor-1221 {2}			3.44				3.37	3.51
Aroclor-1221 {3}			3.67				3.60	3.74
Aroclor-1221 {4}			3.77				3.70	3.84
Aroclor-1221 {5}			5.11				5.04	5.18
Aroclor-1232			3.76				3.69	3.83
Aroclor-1232 {2}			4.74				4.67	4.81
Aroclor-1232 {3}			5.32				5.25	5.39
Aroclor-1232 {4}			5.49				5.42	5.56
Aroclor-1232 {5}			6.09				6.02	6.16
Aroclor-1242			4.74				4.67	4.81
Aroclor-1242 {2}			5.49				5.42	5.56
Aroclor-1242 {3}			6.09				6.02	6.16
Aroclor-1242 {4}			6.24				6.17	6.31
Aroclor-1242 {5}			6.79				6.72	6.86
Aroclor-1248			5.11				5.03	5.19
Aroclor-1248 {2}			5.69				5.61	5.77
Aroclor-1248 {3}			6.09				6.01	6.17
Aroclor-1248 {4}			6.24				6.16	6.32
Aroclor-1248 {5}			6.59				6.51	6.67
Aroclor-1254			7.09				7.01	7.17
Aroclor-1254 {2}			7.67				7.59	7.75
Aroclor-1254 {3}			8.29				8.20	8.38
Aroclor-1254 {4}			8.51				8.42	8.60
Aroclor-1254 {5}			9.10				9.01	9.19
Aroclor-1260	7.85	7.85	7.85	7.85	7.85	7.85	6.95	8.75
Aroclor-1260 {2}	8.11	8.11	8.11	8.11	8.11	8.11	7.21	9.01
Aroclor-1260 {3}	9.70	9.70	9.70	9.70	9.70	9.70	8.80	10.60
Aroclor-1260 {4}	10.20	10.20	10.20	10.20	10.20	10.20	9.30	11.10
Aroclor-1260 {5}	10.79	10.79	10.79	10.79	10.79	10.79	9.89	11.69

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y  
GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	840261	856585	714298	646843	597927	731183	15.71
Aroclor-1016 {2}	1833596	1816776	1547682	1378645	1353928	1586125	14.54
Aroclor-1016 {3}	4371716	4236799	3569561	3258945	3150851	3717574	15.04
Aroclor-1016 {4}	1871668	1849704	1597815	1454198	1410182	1636714	13.20
Aroclor-1016 {5}	1442767	1421476	1238979	1138128	1115123	1271295	12.13
Aroclor-1221			340703				
Aroclor-1221 {2}			617655				
Aroclor-1221 {3}			417322				
Aroclor-1221 {4}			1522237				
Aroclor-1221 {5}			291032				
Aroclor-1232			973678				
Aroclor-1232 {2}			425526				
Aroclor-1232 {3}			940006				
Aroclor-1232 {4}			735287				
Aroclor-1232 {5}			1002709				
Aroclor-1242			611221				
Aroclor-1242 {2}			1032956				
Aroclor-1242 {3}			1271440				
Aroclor-1242 {4}			1106793				
Aroclor-1242 {5}			2184386				
Aroclor-1248			2396754				
Aroclor-1248 {2}			3539345				
Aroclor-1248 {3}			2550731				
Aroclor-1248 {4}			2230079				
Aroclor-1248 {5}			1294923				
Aroclor-1254			2883717				
Aroclor-1254 {2}			2180898				
Aroclor-1254 {3}			1865030				
Aroclor-1254 {4}			1138169				
Aroclor-1254 {5}			2980480				
Aroclor-1260	1380266	1597791	1348190	1285120	1250722	1372418	9.90
Aroclor-1260 {2}	2170235	2320146	1904498	1826388	1764884	1997230	11.90
Aroclor-1260 {3}	1830758	1876902	1742155	1590179	1579596	1723918	7.88
Aroclor-1260 {4}	3775292	4234437	3909868	3531301	3570473	3804274	7.51
Aroclor-1260 {5}	2569926	3071676	2828424	2567649	2559367	2719408	8.36
Average %RSD							11.62

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	RT OF STANDARDS					MEAN RT	RT WI N DOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.55				8.43	8.67
Aroclor-1262 {2}			9.41				9.29	9.53
Aroclor-1262 {3}			10.04				9.92	10.16
Aroclor-1262 {4}			10.13				10.01	10.25
Aroclor-1262 {5}			10.95				10.83	11.07
Aroclor-1268			10.04				9.92	10.16
Aroclor-1268 {2}			10.12				10.00	10.24
Aroclor-1268 {3}			10.59				10.47	10.71
Aroclor-1268 {4}			11.55				11.43	11.67
Aroclor-1268 {5}			12.04				11.92	12.16

GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	RT OF STANDARDS					MEAN RT	RT WI N DOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.70				9.58	9.82
Aroclor-1262 {2}			10.20				10.08	10.32
Aroclor-1262 {3}			10.70				10.58	10.82
Aroclor-1262 {4}			10.79				10.67	10.91
Aroclor-1262 {5}			11.39				11.27	11.51
Aroclor-1268			10.70				10.58	10.82
Aroclor-1268 {2}			10.78				10.66	10.90
Aroclor-1268 {3}			11.04				10.92	11.16
Aroclor-1268 {4}			12.25				12.13	12.37
Aroclor-1268 {5}			12.48				12.36	12.60

## AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 09/25/2013

Instrument ID: GC-Y

GC Column (1st): DB-5

Data File: Y1850.D Y1849.D Y1848.D Y1847.D Y1846.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1292916				
Aroclor-1262 {2}			2408782				
Aroclor-1262 {3}			950819				
Aroclor-1262 {4}			1039798				
Aroclor-1262 {5}			871465				
Aroclor-1268			2329028				
Aroclor-1268 {2}			2439244				
Aroclor-1268 {3}			1975765				
Aroclor-1268 {4}			5596247				
Aroclor-1268 {5}			3165388				

GC Column (2nd): DB-1701P

Data File: Y1850.C Y1849.C Y1848.C Y1847.C Y1846.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			2532606				
Aroclor-1262 {2}			5716193				
Aroclor-1262 {3}			2058727				
Aroclor-1262 {4}			4020600				
Aroclor-1262 {5}			980018				
Aroclor-1268			5861773				
Aroclor-1268 {2}			6124826				
Aroclor-1268 {3}			5049165				
Aroclor-1268 {4}			14509441				
Aroclor-1268 {5}			8286384				

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/18/2013

Instrument ID: GC-Y

Data File: Y2271.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.22	3.16	3.30	394332	354916	10.00
Aroclor-1016 {2}	4.05	3.98	4.12	546451	492288	9.91
Aroclor-1016 {3}	4.59	4.53	4.67	687780	609417	11.39
Aroclor-1016 {4}	5.10	5.03	5.17	331025	326933	1.24
Aroclor-1016 {5}	5.49	5.42	5.56	562872	506417	10.03
Aroclor-1260	8.26	7.36	9.16	1606726	1374861	14.43
Aroclor-1260 {2}	8.94	8.04	9.84	759119	642301	15.39
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1539497	15.70
Aroclor-1260 {4}	9.89	8.99	10.79	952284	834812	12.34
Aroclor-1260 {5}	10.95	10.05	11.85	412992	355923	13.82

Data File: Y2271.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.77	3.69	3.83	731183	871852	19.24
Aroclor-1016 {2}	4.37	4.29	4.43	1586125	1644597	3.69
Aroclor-1016 {3}	5.12	5.04	5.18	3717574	3734392	0.45
Aroclor-1016 {4}	5.33	5.25	5.39	1636714	1583940	3.22
Aroclor-1016 {5}	5.50	5.42	5.56	1271295	1264246	0.55
Aroclor-1260	7.86	6.95	8.75	1372418	1432386	4.37
Aroclor-1260 {2}	8.12	7.21	9.01	1997230	2036505	1.97
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1768349	2.58
Aroclor-1260 {4}	10.21	9.30	11.10	3804274	3873084	1.81
Aroclor-1260 {5}	10.80	9.89	11.69	2719408	2752882	1.23

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/18/2013

Instrument ID: GC-Y

Data File: Y2284.D

GC Column (1st): DB-5

Compound	RT	RT W I N D O W		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	347431	11.89
Aroclor-1016 {2}	4.05	3.98	4.12	546451	481116	11.96
Aroclor-1016 {3}	4.60	4.53	4.67	687780	597100	13.18
Aroclor-1016 {4}	5.10	5.03	5.17	331025	317834	3.98
Aroclor-1016 {5}	5.49	5.42	5.56	562872	493106	12.39
Aroclor-1260	8.26	7.36	9.16	1606726	1367594	14.88
Aroclor-1260 {2}	8.94	8.04	9.84	759119	635053	16.34
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1598098	12.50
Aroclor-1260 {4}	9.89	8.99	10.79	952284	820837	13.80
Aroclor-1260 {5}	10.95	10.05	11.85	412992	356546	13.67

Data File: Y2284.C

GC Column (2nd): DB-1701P

Compound	RT	RT W I N D O W		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	694870	4.97
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1561925	1.53
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3510705	5.56
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1494972	8.66
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1188651	6.50
Aroclor-1260	7.85	6.95	8.75	1372418	1351800	1.50
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	1943497	2.69
Aroclor-1260 {3}	9.70	8.80	10.60	1723918	1680505	2.52
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4057478	6.66
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2826629	3.94

## AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 10/18/2013 Instrument ID: GC-Y

Data File: Y2298.D GC Column (1st): DB-5

Compound	RT	RT WI N DOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	394332	364215	7.64
Aroclor-1016 {2}	4.05	3.98	4.12	546451	495183	9.38
Aroclor-1016 {3}	4.60	4.53	4.67	687780	632983	7.97
Aroclor-1016 {4}	5.10	5.03	5.17	331025	329910	0.34
Aroclor-1016 {5}	5.50	5.42	5.56	562872	524372	6.84
Aroclor-1260	8.27	7.36	9.16	1606726	1455241	9.43
Aroclor-1260 {2}	8.94	8.04	9.84	759119	676452	10.89
Aroclor-1260 {3}	9.41	8.51	10.31	1826305	1664914	8.84
Aroclor-1260 {4}	9.89	8.99	10.79	952284	882612	7.32
Aroclor-1260 {5}	10.95	10.05	11.85	412992	373247	9.62

Data File: Y2298.C GC Column (2nd): DB-1701P

Compound	RT	RT WI N DOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.76	3.69	3.83	731183	741253	1.38
Aroclor-1016 {2}	4.36	4.29	4.43	1586125	1673654	5.52
Aroclor-1016 {3}	5.11	5.04	5.18	3717574	3737034	0.52
Aroclor-1016 {4}	5.32	5.25	5.39	1636714	1628218	0.52
Aroclor-1016 {5}	5.49	5.42	5.56	1271295	1276398	0.40
Aroclor-1260	7.85	6.95	8.75	1372418	1392938	1.50
Aroclor-1260 {2}	8.11	7.21	9.01	1997230	2012434	0.76
Aroclor-1260 {3}	9.69	8.80	10.60	1723918	1842510	6.88
Aroclor-1260 {4}	10.20	9.30	11.10	3804274	4056908	6.64
Aroclor-1260 {5}	10.79	9.89	11.69	2719408	2855469	5.00

**PCB RETENTION TIME SHIFT SUMMARY**

**Instrument ID:** GC-R

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1    2.74                      DCB 1    12.08    TCMX 2    2.56                      DCB 2    11.93

Client ID	Lab	Date	Time	TCMX 1	DCB 1	TCMX 2	DCB 2
	Sample ID	Analyzed	Analyzed	RT #	RT #	RT #	RT #
PCB	BLKA131014-14	10/15/2013	10:20	2.74	12.08	2.56	11.93
FB-18	E13-10033-015	10/15/2013	10:37	2.74	12.08	2.56	11.93
FB-19	E13-10103-012	10/15/2013	10:59	2.74	12.08	2.57	11.94
FB-20	E13-10150-016	10/15/2013	11:16	2.74	12.08	2.56	11.93
PCB	LCSA131014-14	10/15/2013	11:34	2.74	12.08	2.56	11.93
PCB	LCSDA131014-14	10/15/2013	11:51	2.74	12.08	2.56	11.93

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**                      ( ± 0.10 Minutes )

**DCB = Decachlorobiphenyl**                      ( ± 0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB RETENTION TIME SHIFT SUMMARY**

**Instrument ID:** GC-R

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1    2.75                      DCB 1    12.09    TCMX 2    2.57                      DCB 2    11.94

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1 RT	DCB 1 #	TCMX 2 RT	DCB 2 #
PCB	BLKS131016-07	10/17/2013	11:39	2.75	12.09	2.57	11.94
WH61-POS	E13-10241-001	10/17/2013	11:57	2.75	12.08	2.57	11.93
WH61-POS	E13-10241-002	10/17/2013	12:14	2.75	12.08	2.57	11.93
WH61-POS	E13-10241-003	10/17/2013	12:32	2.75	12.08	2.57	11.93
WH61-POS	E13-10241-004	10/17/2013	12:49	2.75	12.08	2.57	11.93
WH61-POS	E13-10241-005	10/17/2013	13:07	2.75	12.08	2.57	11.93
HLR-66C-	E13-10127-001	10/17/2013	13:59	2.74	12.09	2.57	11.94
HLR-66C-	E13-10127-002	10/17/2013	14:17	2.75	12.08	2.57	11.94
HLR-66C-	E13-10127-003	10/17/2013	14:34	2.75	12.08	2.57	11.93
HLR-66C-	E13-10127-004	10/17/2013	14:52	2.75	12.09	2.57	11.94
PCB	10127-001MS	10/17/2013	15:09	2.74	12.09	2.57	11.94
PCB	10127-001MSD	10/17/2013	15:26	2.74	12.09	2.57	11.94
PCB	LCSS131016-07	10/17/2013	15:44	2.75	12.09	2.57	11.94
HLR-66-1	E13-10122-005	10/17/2013	16:19	2.74	12.09	2.56	11.94
HLR-66-1	E13-10122-006	10/17/2013	16:36	2.74	12.08	2.57	11.93
HLR-66-1	E13-10122-007	10/17/2013	16:53	2.74	12.08	2.57	11.93
HLR-66-1	E13-10122-008	10/17/2013	17:11	2.74	12.09	2.57	11.94
HLR-66-1	E13-10122-009	10/17/2013	17:28	2.75	12.08	2.57	11.93
HLR-66-1	E13-10122-010	10/17/2013	17:46	2.74	12.09	2.57	11.94
HLR-66-1	E13-10122-011	10/17/2013	18:03	2.74	12.10	2.57	11.92
JJ-38(0-	E13-10103-001	10/17/2013	18:56	2.75	12.08	2.57	11.93
JJ-38(1.	E13-10103-002	10/17/2013	19:13	2.75	12.08	2.57	11.93
JJ-38(2.	E13-10103-003	10/17/2013	19:30	2.74	12.09	2.57	11.94
II-38(0-	E13-10103-004	10/17/2013	19:48	2.74	12.08	2.57	11.93
II-38(0-	E13-10103-004DL	10/18/2013	08:29	2.74	12.08	2.57	11.93

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**                      ( ± 0.10 Minutes )

**DCB = Decachlorobiphenyl**                      ( ± 0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

**PCB RETENTION TIME SHIFT SUMMARY**

**Instrument ID:** GC-Y

**Column:** DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1    2.77                      DCB 1    12.04    TCMX 2    2.90                      DCB 2    12.48

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed	TCMX 1		DCB 1		TCMX 2		DCB 2	
				RT	#	RT	#	RT	#	RT	#
PCB	BLKS131017-11	10/18/2013	09:32	2.77		12.04		2.90		12.48	
PCB	LCSS131017-11	10/18/2013	09:49	2.77		12.04		2.89		12.48	
IB-3A/1.	E13-10149-005	10/18/2013	10:19	2.77		12.04		2.90		12.48	
PCB	10149-005MS	10/18/2013	10:36	2.77		12.04		2.89		12.48	
PCB	10149-005MSD	10/18/2013	10:54	2.77		12.04		2.89		12.48	
H-8C/5-1	E13-10148-001	10/18/2013	11:11	2.77		12.04		2.89		12.48	
H-9C/5-1	E13-10148-003	10/18/2013	11:28	2.77		12.04		2.89		12.48	
H-10C/5-	E13-10148-005	10/18/2013	11:46	2.77		12.04		2.89		12.48	
WC-539-1	E13-10264-001	10/18/2013	12:03	2.77		12.04		2.89		12.48	
WC-539-2	E13-10264-002	10/18/2013	12:21	2.77		12.04		2.89		12.48	
WC-535/0	E13-10264-003	10/18/2013	12:38	2.77		12.04		2.89		12.48	
WC-537/0	E13-10264-004	10/18/2013	12:55	2.77		12.04		2.89		12.48	
W-1	E13-10231-001	10/18/2013	13:30	2.77		12.04		2.89		12.48	
HLR-66B-	E13-10123-007	10/18/2013	13:48	2.77		12.04		2.89		12.48	
II-38(1.	E13-10103-005	10/18/2013	14:05	2.77		12.04		2.89		12.47	
II-38(2.	E13-10103-006	10/18/2013	14:22	2.77		12.04		2.89		12.48	
JJ-39(0-	E13-10103-007	10/18/2013	14:40	2.77		12.04		2.89		12.47	
JJ-39(1.	E13-10103-008	10/18/2013	14:57	2.77		12.04		2.89		12.48	
II-35R(5	E13-10103-009	10/18/2013	15:15	2.77		12.04		2.89		12.48	
II-34N(4	E13-10103-010	10/18/2013	15:32	2.77		12.04		2.89		12.48	
II-34N(6	E13-10103-011	10/18/2013	15:50	2.77		12.04		2.89		12.48	
S-1	E13-10133-001	10/18/2013	16:07	2.77		12.04		2.89		12.47	
S-2	E13-10133-002	10/18/2013	16:42	2.77		12.04		2.89		12.48	
IB-1A/1.	E13-10149-001	10/18/2013	16:59	2.77		12.04		2.89		12.47	
II-34N(4	E13-10103-010DL	10/18/2013	17:34	2.77		12.04		2.89		12.48	

Surrogate QC Limits

**TCMX = Tetrachloro-m-xylene**                      ( ± 0.10 Minutes )

**DCB = Decachlorobiphenyl**                      ( ± 0.10 Minutes )

# Column to be used to flag recovery values

\* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SAMPLE DATA

Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4806.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 18:56  
 Operator : JS  
 Sample : JJ-38(0-,E13-10103-001,S,5.10g,78.8,20  
 Misc : 131016-07,10/16/13,10/10/13,1  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 10:03:07 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2947.3E6	6465.1E6	251.933	293.546
Spiked Amount	200.000		Recovery	=	125.97%	146.77%
2) S DCB	12.08	11.93	1027.0E6	2329.6E6	274.941	359.268 #
Spiked Amount	200.000		Recovery	=	137.47%	179.63%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	56087003	124.2E6	86.938	103.797
24) L6 Aroclor-1248 {2}	4.98	5.21	89138476	531.1E6	240.239	297.152
25) L6 Aroclor-1248 {3}	5.30	5.60	122.2E6	376.8E6	250.064	294.526
26) L6 Aroclor-1248 {4}	6.00	5.75	214.3E6	192.0E6	270.701	165.997 #
27) L6 Aroclor-1248 {5}	6.28	6.10	101.8E6	107.0E6	178.707	169.778
Sum Aroclor-1248			583.5E6	1331.1E6	1026.649	1031.250
Average Aroclor-1248					205.330	206.250
28) L7 Aroclor-1254	6.39	6.58	87295001	152.7E6	116.079	105.357
29) L7 Aroclor-1254 {2}	6.84	7.16	108.7E6	314.4E6	226.126	275.699
30) L7 Aroclor-1254 {3}	7.00	7.59	165.4E6	174.9E6	182.980	234.850 #
31) L7 Aroclor-1254 {4}	7.45	7.77	108.9E6	404.5E6	116.339	371.932 #
32) L7 Aroclor-1254 {5}	8.24	8.57	232.3E6	416.0E6	272.362m	260.676
Sum Aroclor-1254			702.5E6	1462.5E6	913.886	1248.513
Average Aroclor-1254					182.777	249.703
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4806.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 18:56  
 Operator : JS  
 Sample : JJ-38(0-,E13-10103-001,S,5.10g,78.8,20  
 Misc : 131016-07,10/16/13,10/10/13,1  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 10:03:07 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

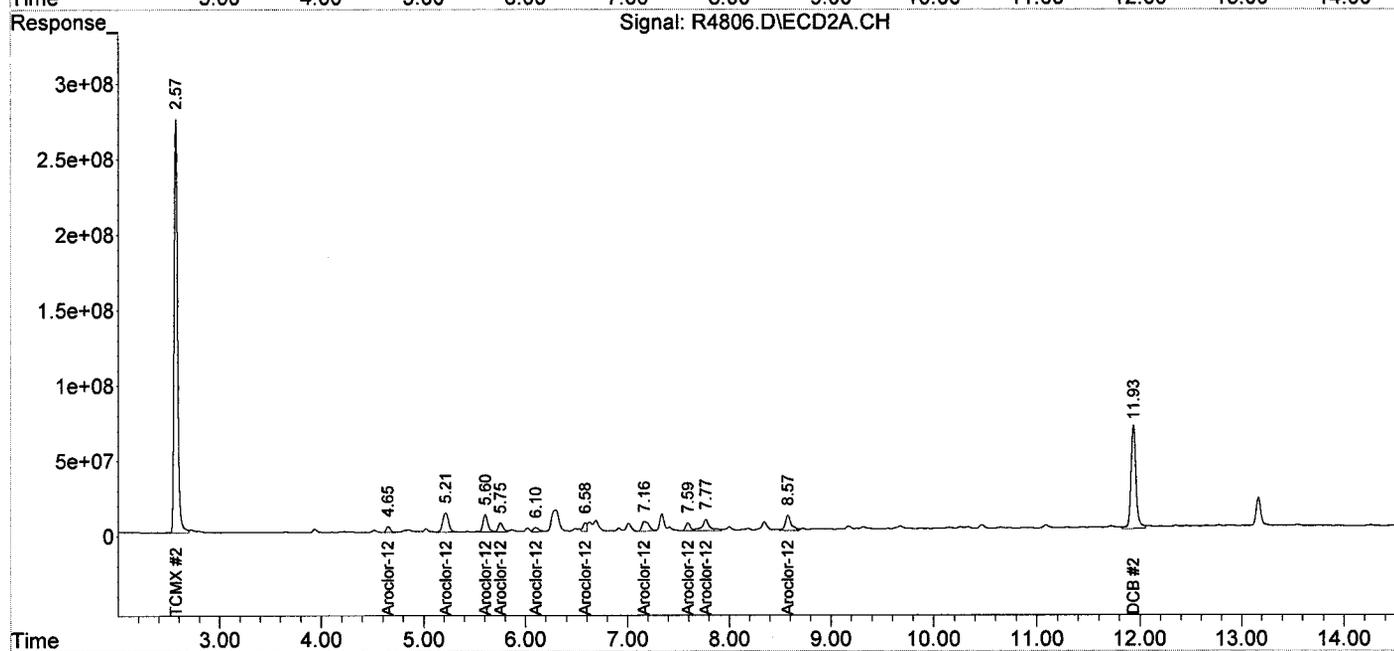
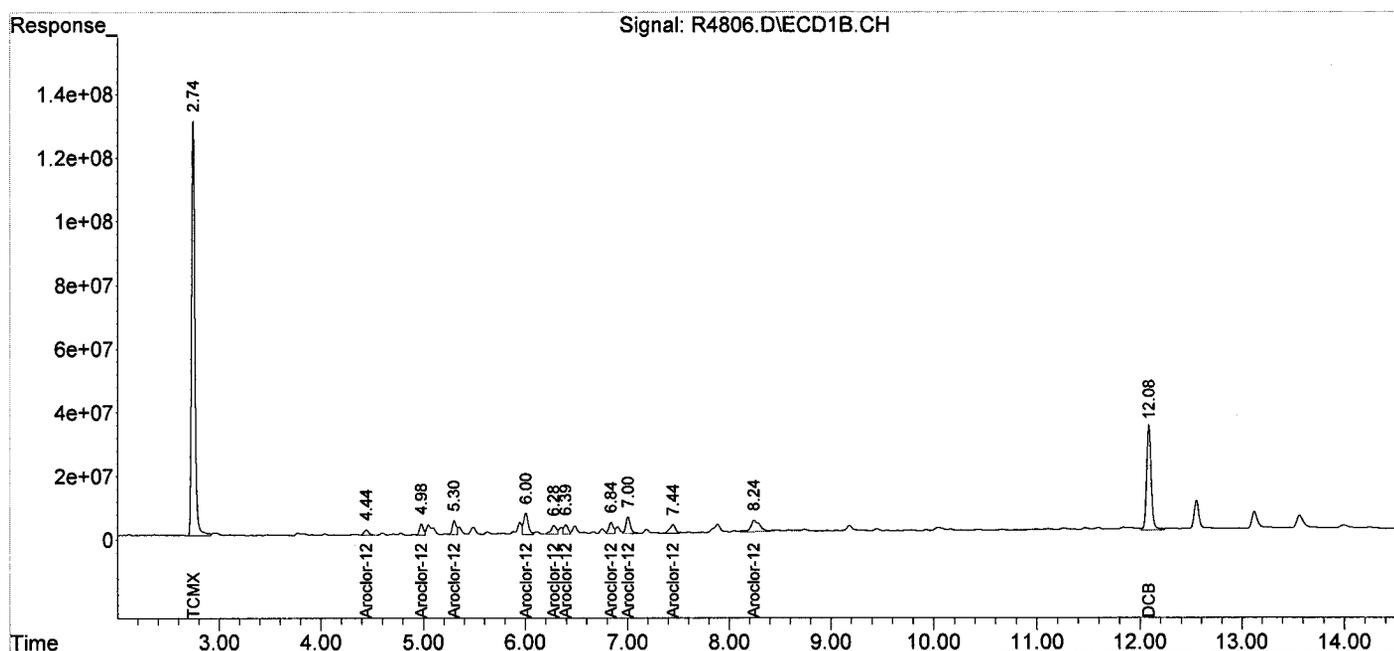
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4806.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 18:56  
 Operator : JS  
 Sample : JJ-38(0-,E13-10103-001,S,5.10g,78.8,20  
 Misc : 131016-07,10/16/13,10/10/13,1  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 10:03:07 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4807.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 19:13  
 Operator : JS  
 Sample : JJ-38(1.,E13-10103-002,S,5.18g,87.7,20  
 Misc : 131016-07,10/16/13,10/10/13,1  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 09:51:55 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

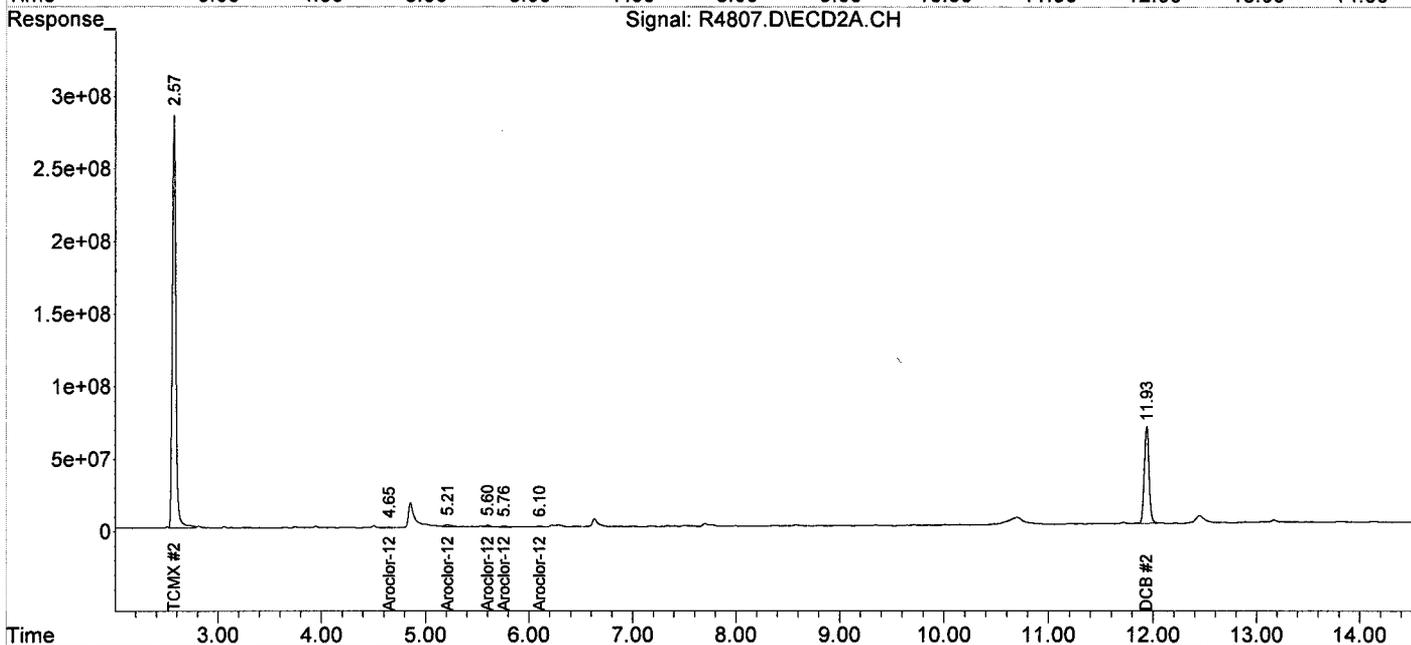
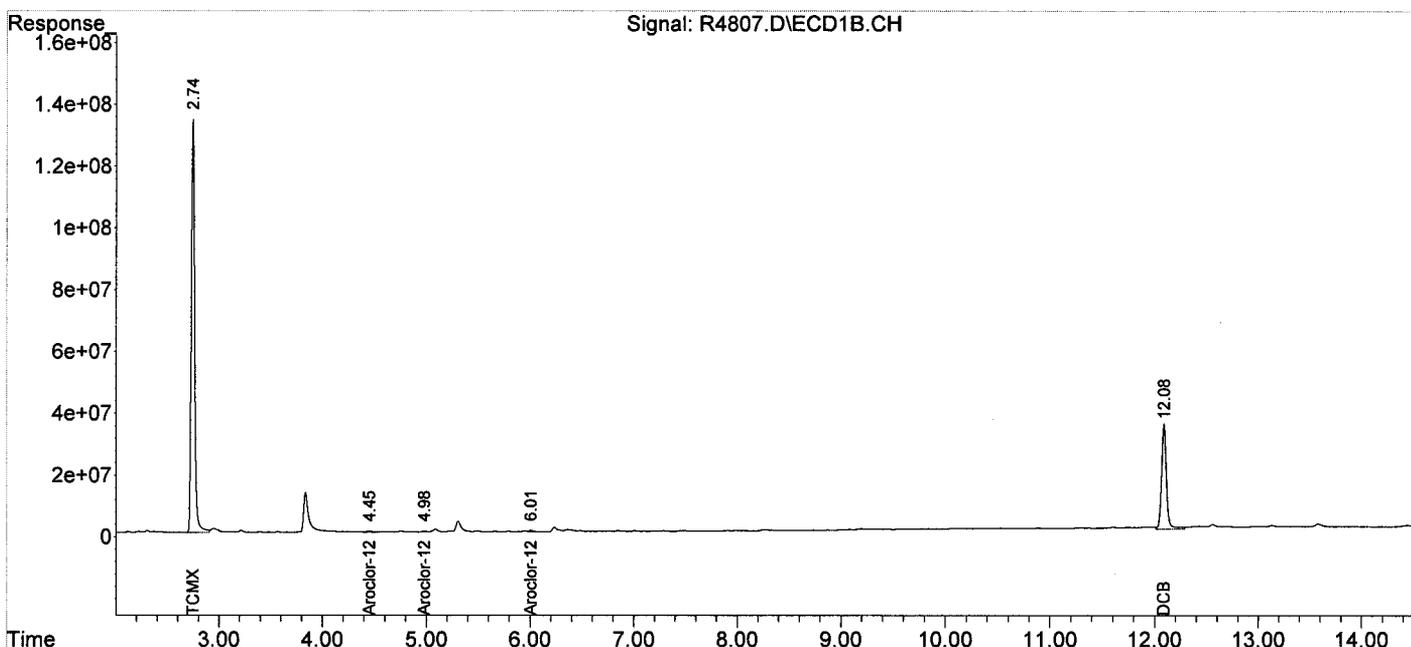
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.75	2.57	3036.3E6	6760.0E6	259.538	306.937m
Spiked Amount	200.000		Recovery	=	129.77%	153.47%
2) S DCB	12.08	11.93	1098.4E6	2107.5E6	294.060	325.029m
Spiked Amount	200.000		Recovery	=	147.03%	162.51%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	4.65	17411536	14863595	26.989	12.425 #
24) L6 Aroclor-1248 {2}	4.98	5.21	8989436	61420030	24.228	34.363m#
25) L6 Aroclor-1248 {3}	0.00	5.60	0	43168183	N.D. d	33.742m#
26) L6 Aroclor-1248 {4}	6.01	5.76	16879005	25992916	21.321	22.475m
27) L6 Aroclor-1248 {5}	0.00	6.10	0	22995645	N.D. d	36.477m#
Sum Aroclor-1248			43279977	168.4E6	72.538	139.482
Average Aroclor-1248					24.179	27.896
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4807.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 19:13  
 Operator : JS  
 Sample : JJ-38(1.,E13-10103-002,S,5.18g,87.7,20  
 Misc : 131016-07,10/16/13,10/10/13,1  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 09:51:55 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4808.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 19:30  
 Operator : JS  
 Sample : JJ-38(2.,E13-10103-003,S,5.32g,55.7,20  
 Misc : 131016-07,10/16/13,10/10/13,1  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 09:52:59 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

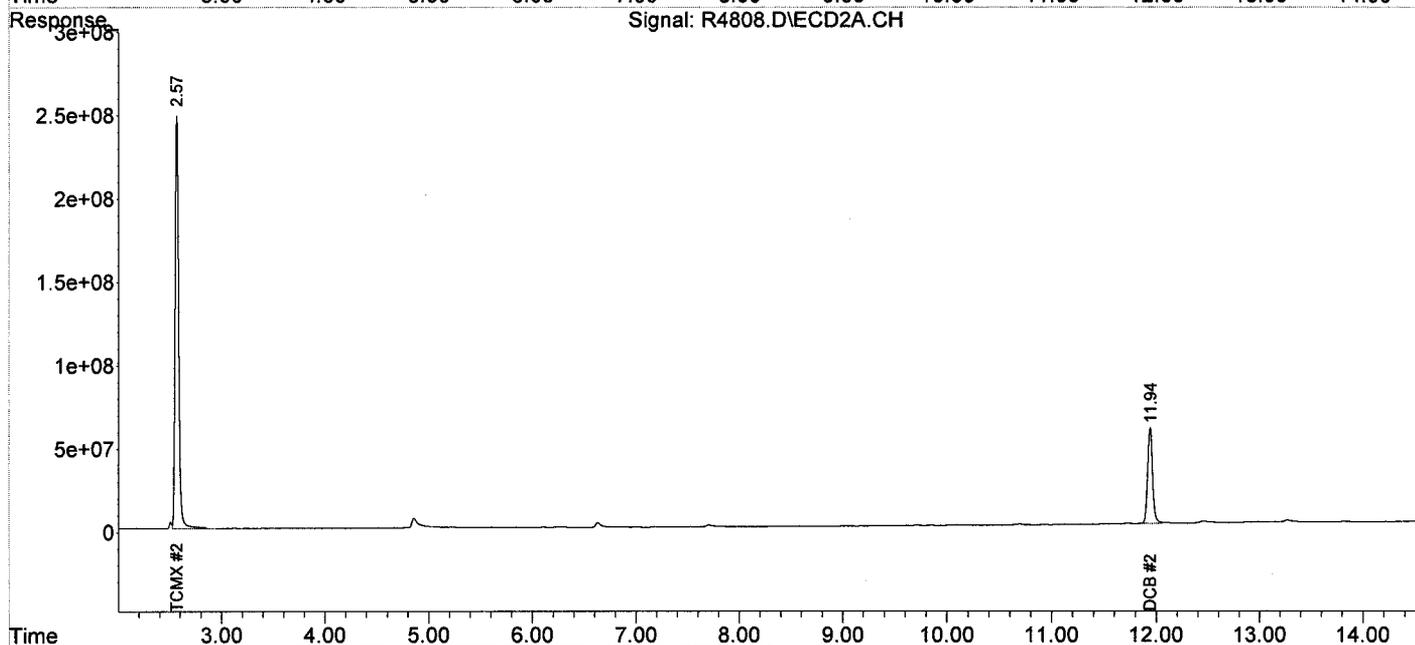
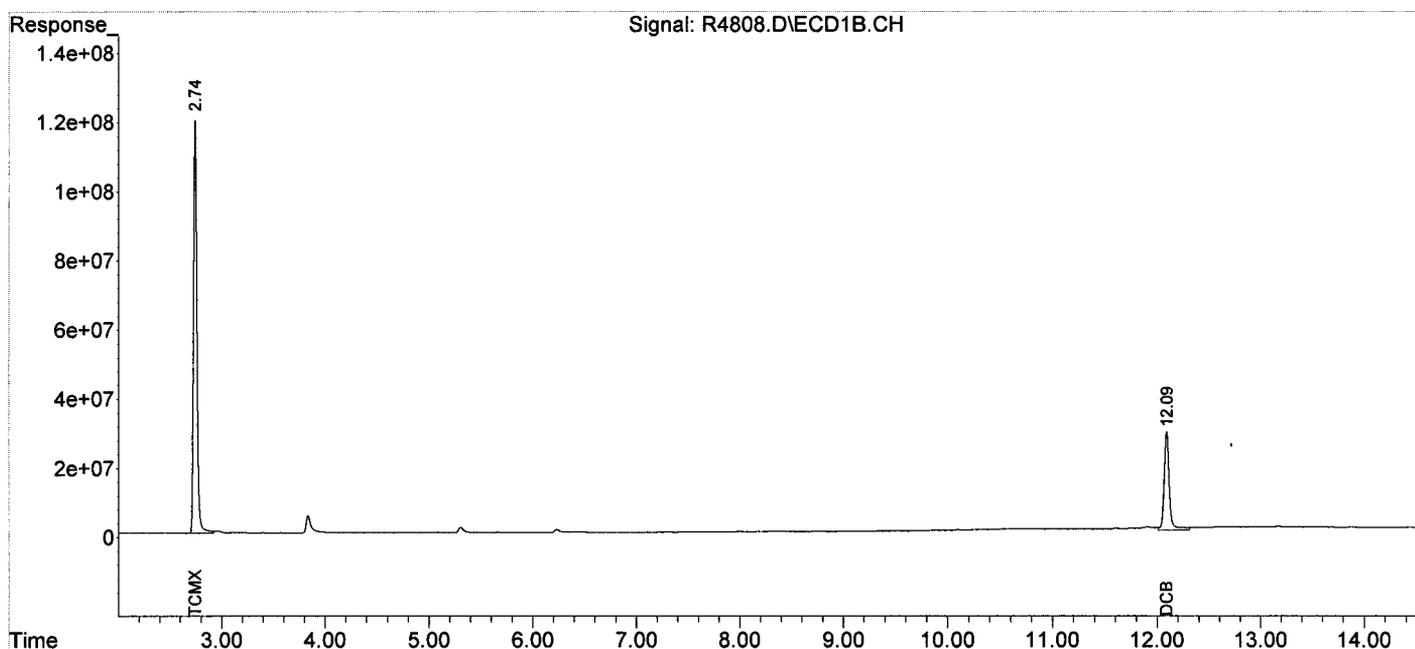
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2725.2E6	6003.6E6	232.949	272.591
Spiked Amount	200.000		Recovery	=	116.47%	136.30%
2) S DCB	12.09	11.94	984.7E6	1863.1E6	263.627	287.331m
Spiked Amount	200.000		Recovery	=	131.81%	143.67%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4808.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 19:30  
 Operator : JS  
 Sample : JJ-38(2.,E13-10103-003,S,5.32g,55.7,20  
 Misc : 131016-07,10/16/13,10/10/13,1  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 09:52:59 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4809.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 19:48  
 Operator : JS  
 Sample : II-38(0-,E13-10103-004,S,5.15g,76.0,20  
 Misc : 131016-07,10/16/13,10/10/13,1  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 08:48:47 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

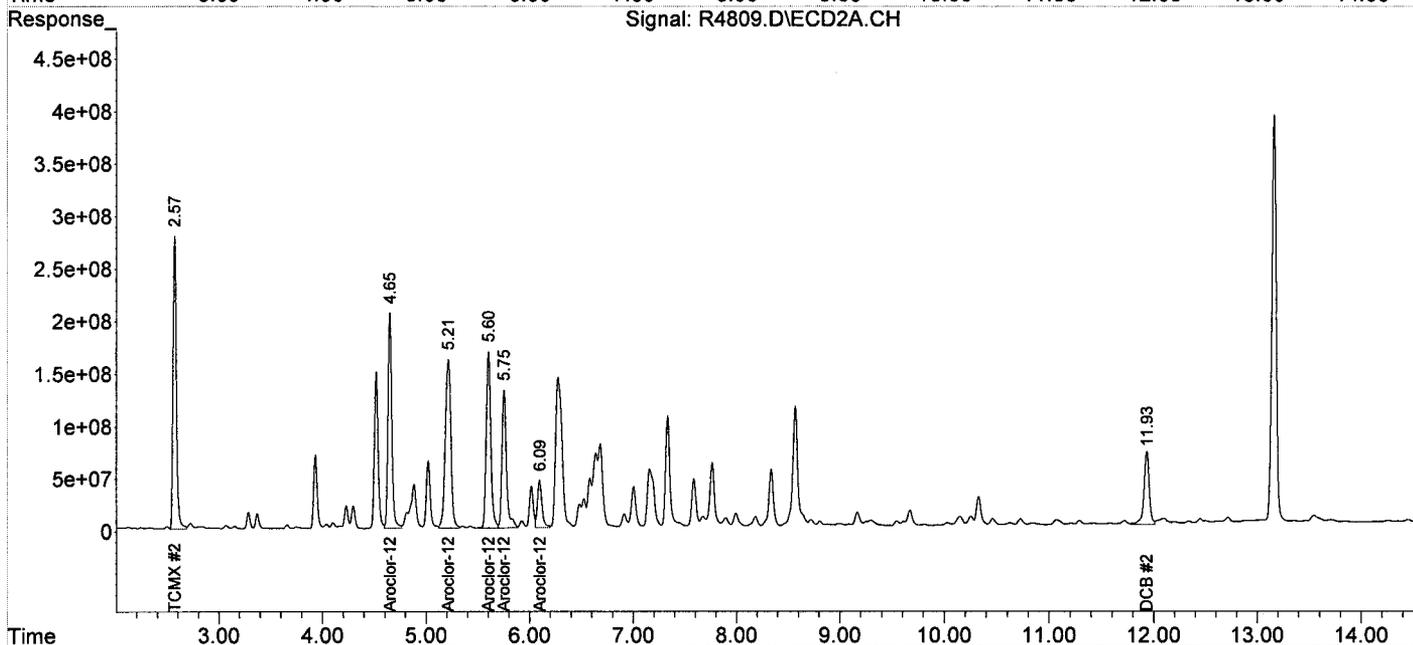
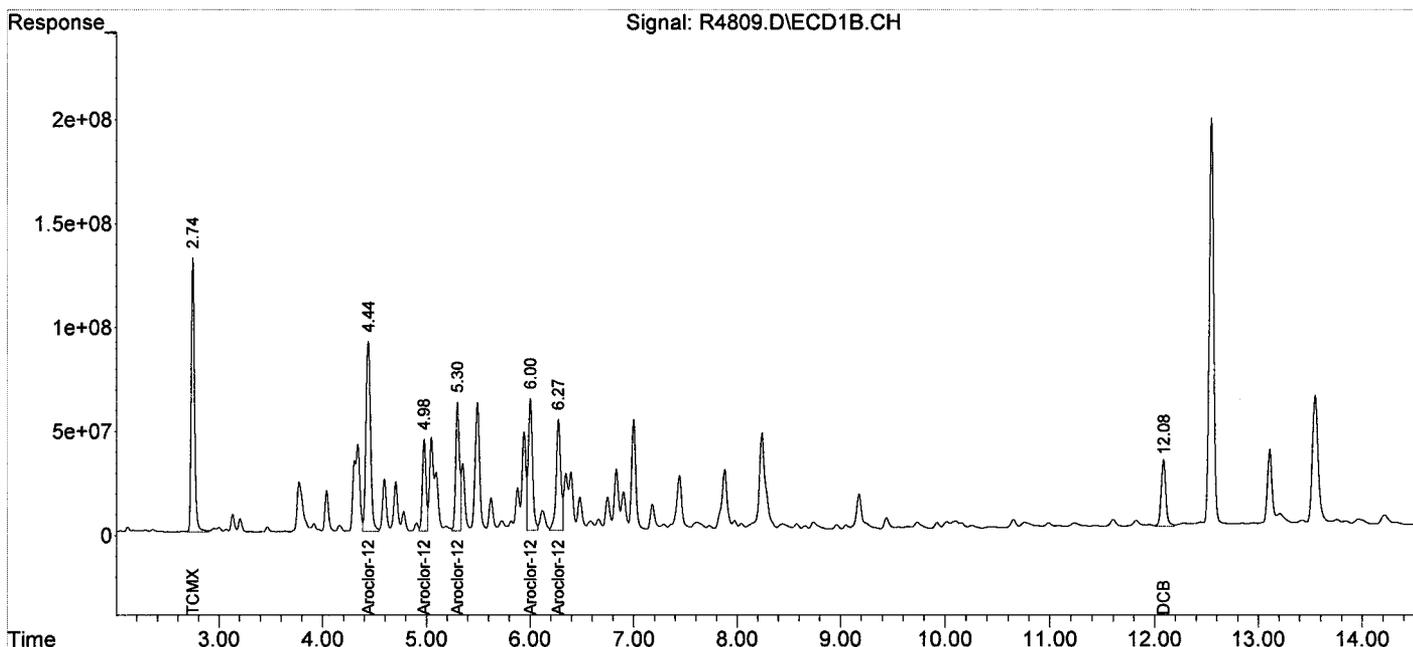
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	2933.7E6	6401.6E6	250.766	290.663
Spiked Amount	200.000		Recovery	=	125.38%	145.33%
2) S DCB	12.08	11.93	1016.8E6	2488.2E6	272.233	383.741 #
Spiked Amount	200.000		Recovery	=	136.12%	191.87%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	2843.1E6	5338.4E6	4406.977	4462.512
24) L6 Aroclor-1248	{2} 4.98	5.21	1058.5E6	6165.7E6	2852.801	3449.588
25) L6 Aroclor-1248	{3} 5.30	5.60	1587.5E6	5090.0E6	3248.302	3978.481
26) L6 Aroclor-1248	{4} 6.00	5.75	1825.4E6	3964.8E6	2305.818	3428.169 #
27) L6 Aroclor-1248	{5} 6.27	6.09	1628.2E6	1353.9E6	2857.799	2147.628
Sum Aroclor-1248			8942.6E6	21912.7E6	15671.697	17466.378
Average Aroclor-1248					3134.339	3493.276
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
Data File : R4809.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 17 Oct 2013 19:48  
Operator : JS  
Sample : II-38(0-,E13-10103-004,S,5.15g,76.0,20  
Misc : 131016-07,10/16/13,10/10/13,1  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 18 08:48:47 2013  
Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
Quant Title :  
QLast Update : Wed Sep 25 15:09:16 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : R4812.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 8:29  
 Operator : JS  
 Sample : II-38(0-,E13-10103-004DL,S,5.15g,76.0,20  
 Misc : 131016-07,10/16/13,10/10/13,5  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 09:59:47 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

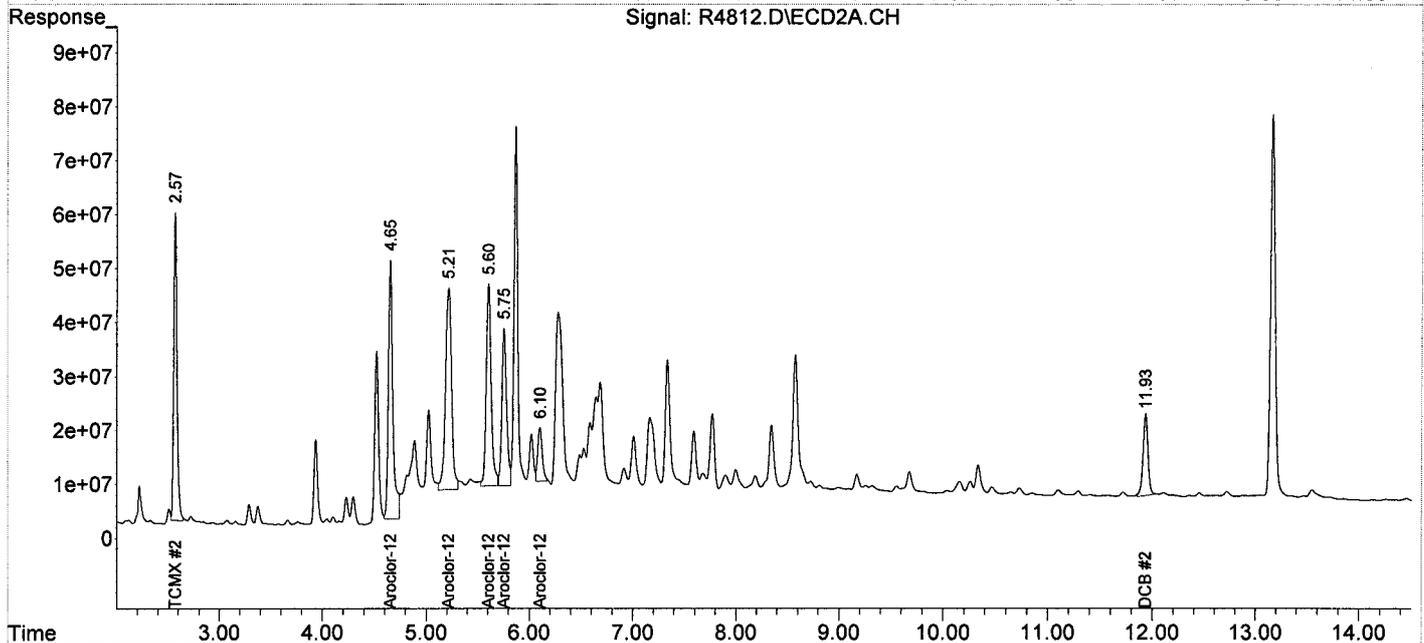
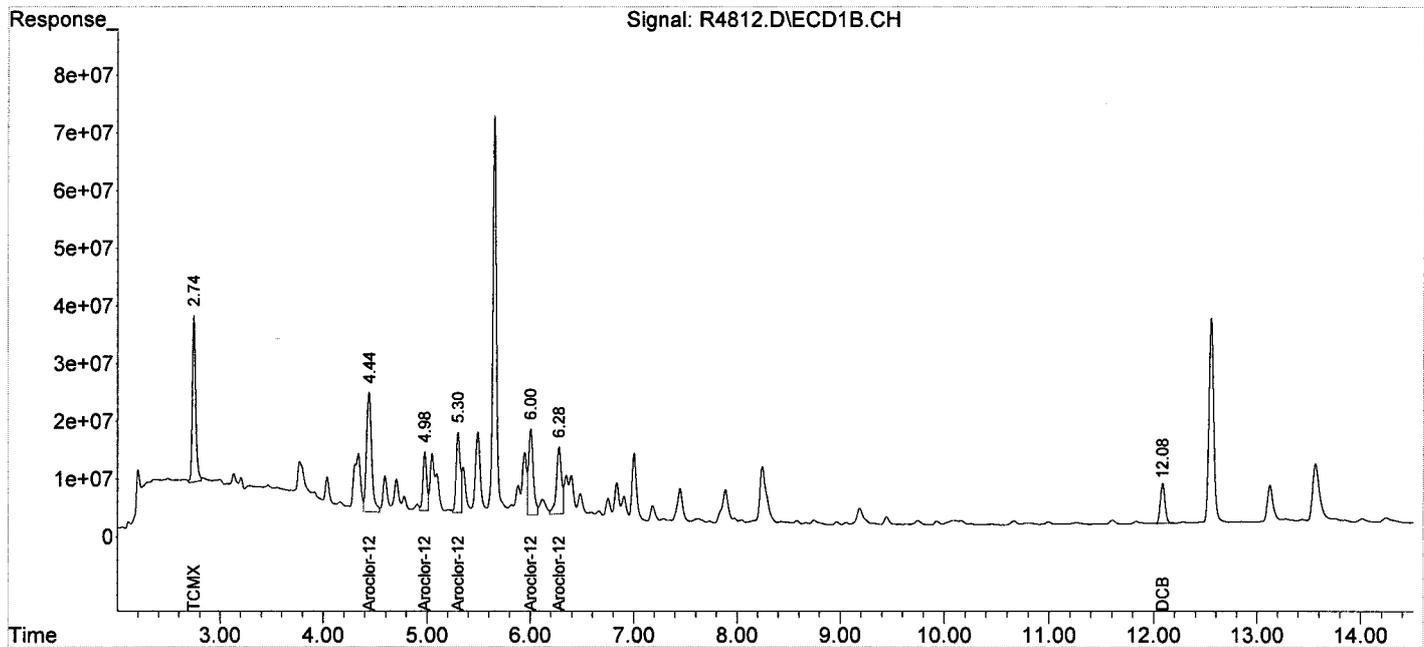
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	632.0E6	1256.6E6	54.020m	57.055m
Spiked Amount	200.000		Recovery	=	27.01%	28.53%
2) S DCB	12.08	11.93	215.7E6	496.1E6	57.761m	76.508m#
Spiked Amount	200.000		Recovery	=	28.88%	38.25%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.44	4.65	717.5E6	1444.9E6	1112.104m	1207.864m
24) L6 Aroclor-1248 {2}	4.98	5.21	256.1E6	1560.1E6	690.292m	872.864m#
25) L6 Aroclor-1248 {3}	5.30	5.60	389.5E6	1247.5E6	796.973m	975.074m
26) L6 Aroclor-1248 {4}	6.00	5.75	472.2E6	925.5E6	596.524m	800.213m#
27) L6 Aroclor-1248 {5}	6.28	6.10	396.8E6	310.1E6	696.484m	491.830m#
Sum Aroclor-1248			2232.1E6	5488.1E6	3892.377	4347.845
Average Aroclor-1248					778.475	869.569
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : R4812.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 8:29  
 Operator : JS  
 Sample : II-38(0-,E13-10103-004DL,S,5.15g,76.0,20  
 Misc : 131016-07,10/16/13,10/10/13,5  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 09:59:47 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2287.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 14:05  
 Operator : NG  
 Sample : II-38(1.,E13-10103-005,S,5.00g,81.9,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 14:47:56 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

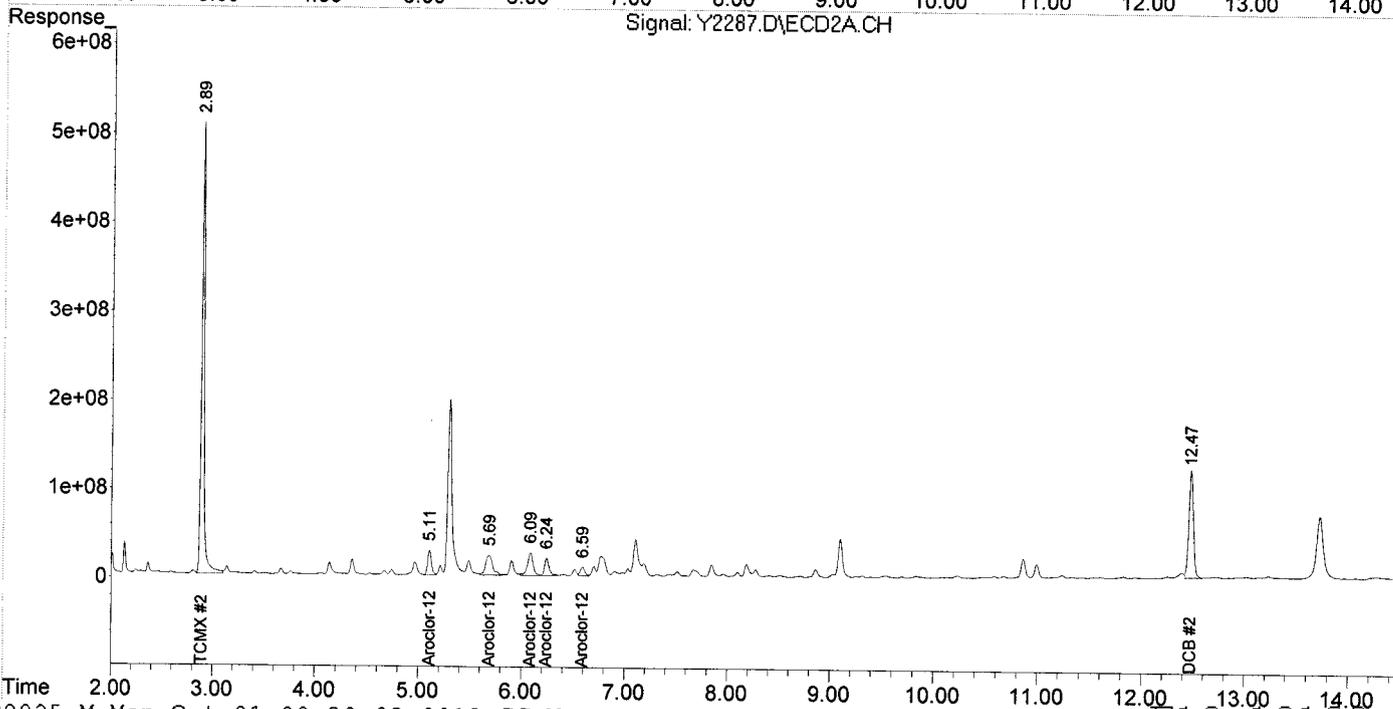
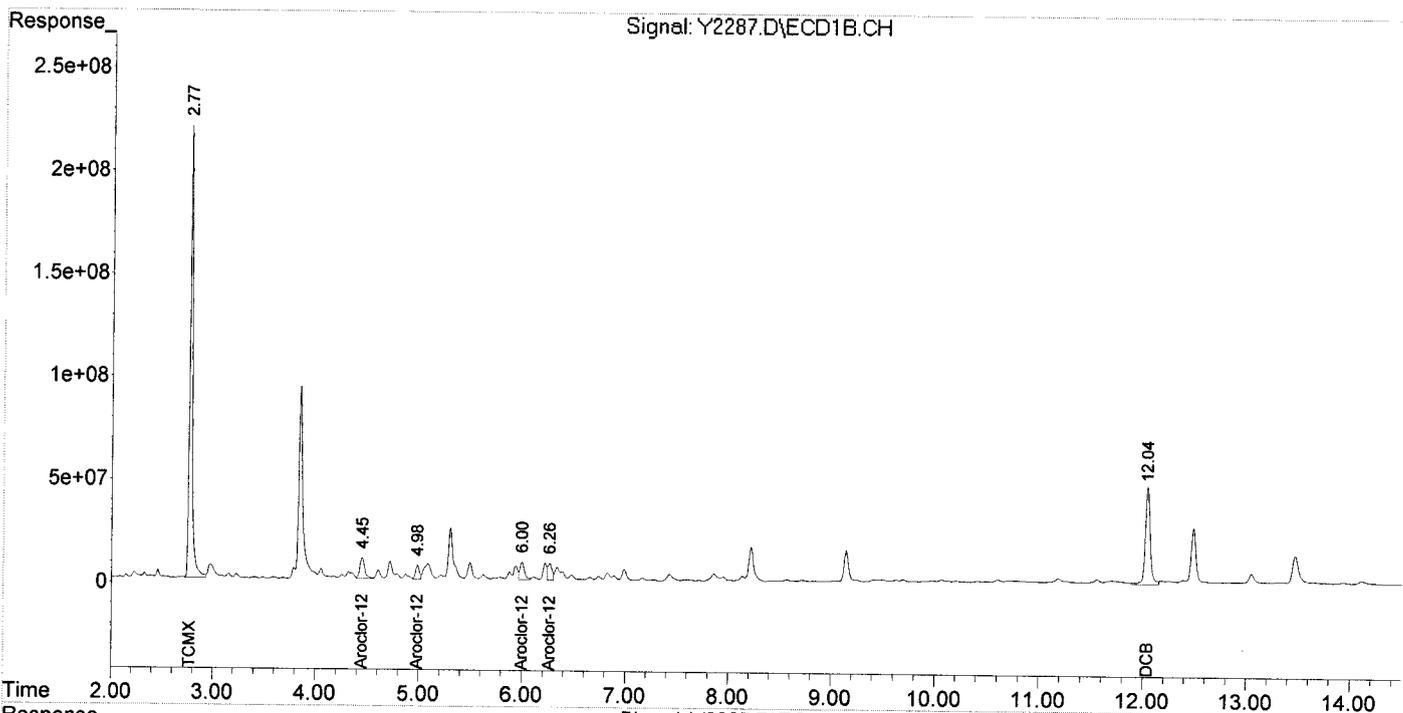
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	4083.8E6	9778.0E6	221.195	266.253
Spiked Amount	200.000		Recovery	=	110.60%	133.13%
2) S DCB	12.04	12.47	1596.2E6	3722.1E6	258.996	288.161m
Spiked Amount	200.000		Recovery	=	129.50%	144.08%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	335.5E6	694.5E6	312.839	289.758
24) L6 Aroclor-1248 {2}	4.98	5.69	166.8E6	1091.4E6	269.816	308.354
25) L6 Aroclor-1248 {3}	0.00	6.09	0	958.6E6	N.D. d	375.831 #
26) L6 Aroclor-1248 {4}	6.00	6.24	266.1E6	607.8E6	210.667	272.562 #
27) L6 Aroclor-1248 {5}	6.26	6.59	231.5E6	303.2E6	231.799	234.167
Sum Aroclor-1248			1000.0E6	3655.6E6	1025.121	1480.671
Average Aroclor-1248					256.280	296.134
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2287.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 14:05  
 Operator : NG  
 Sample : II-38(1.,E13-10103-005,S,5.00g,81.9,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 14:47:56 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2288.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 14:22  
 Operator : NG  
 Sample : II-38(2..E13-10103-006,S,5.00g,33.0,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 15:46:34 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

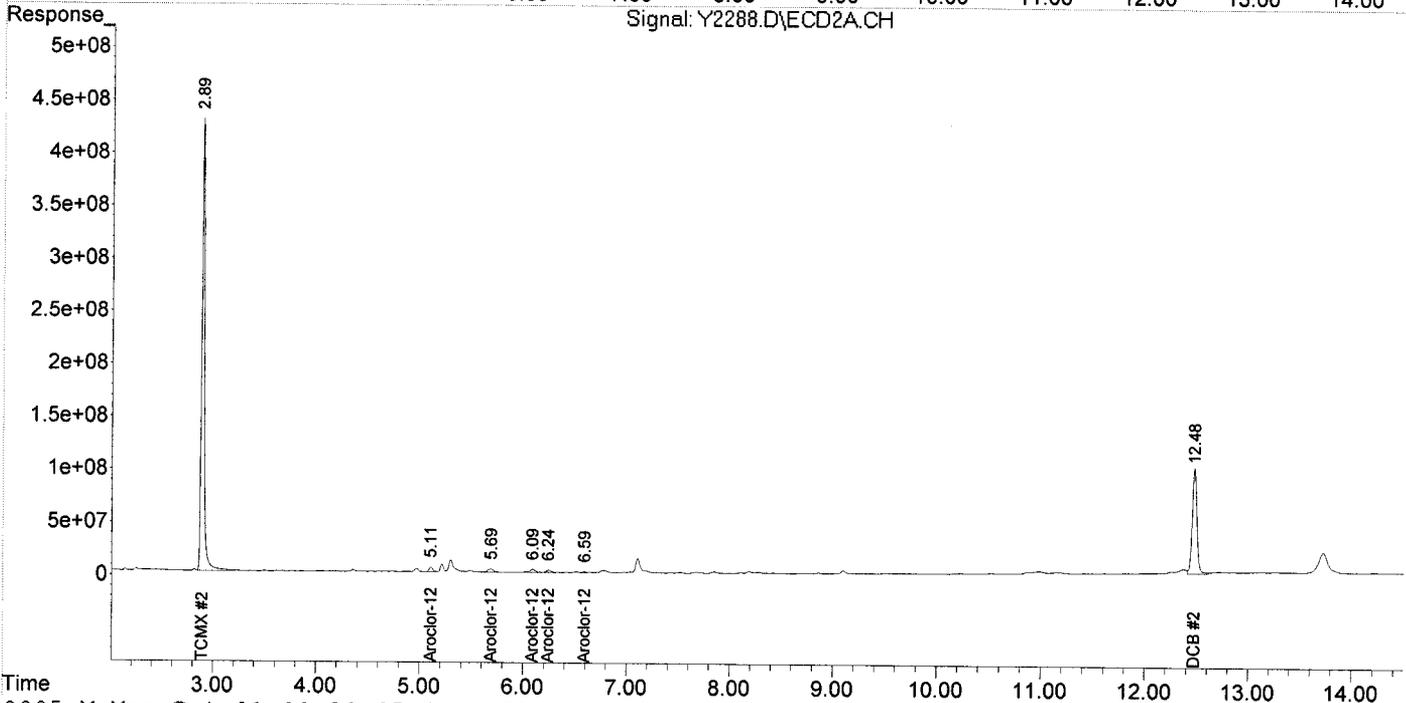
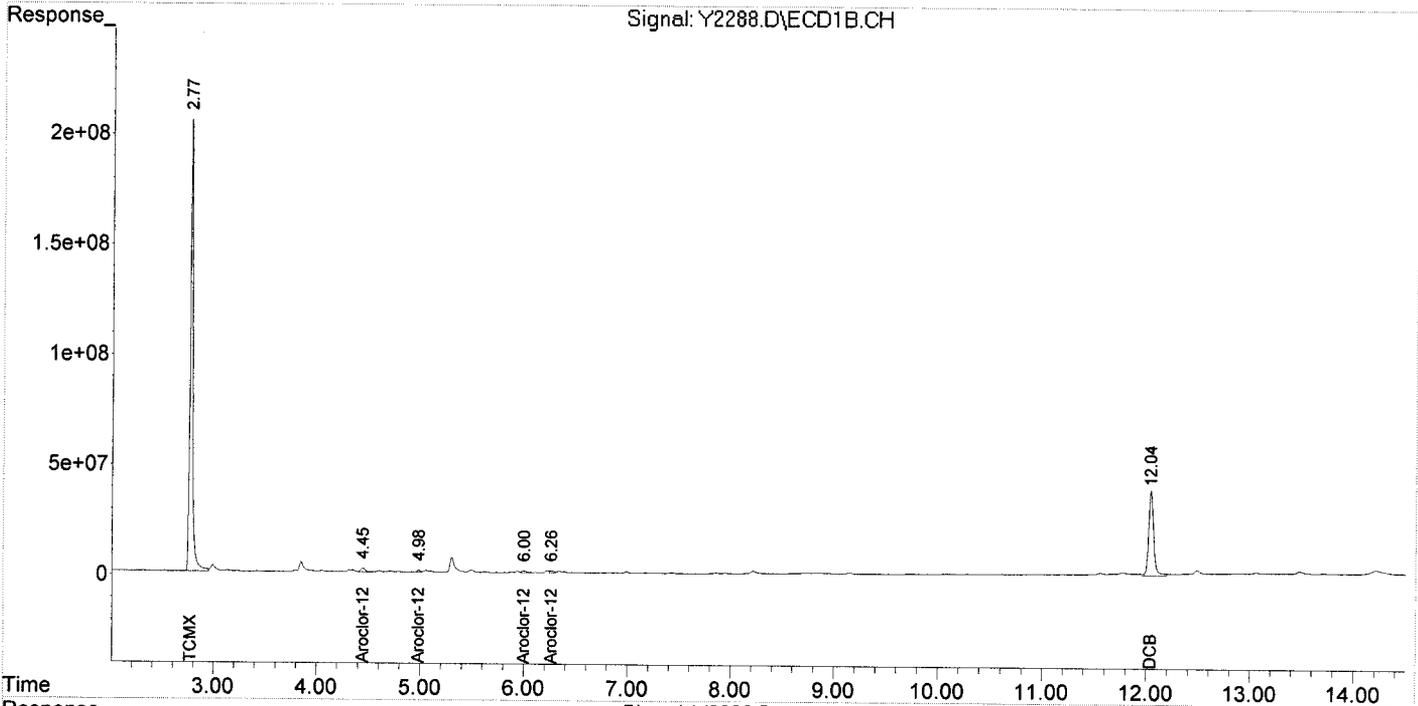
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3833.8E6	8081.1E6	207.652	220.048
Spiked Amount	200.000			Recovery	= 103.83%	110.02%
2) S DCB	12.04	12.48	1274.3E6	3131.9E6	206.773	242.465
Spiked Amount	200.000			Recovery	= 103.39%	121.23%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	52208563	109.2E6	48.676	45.554
24) L6 Aroclor-1248 {2}	4.98	5.69	21408058	122.5E6	34.625	34.606
25) L6 Aroclor-1248 {3}	0.00	6.09	0	93992155	N.D. d	36.849 #
26) L6 Aroclor-1248 {4}	6.00	6.24	25222794	67440124	19.966	30.241 #
27) L6 Aroclor-1248 {5}	6.26	6.59	26575730	22453357	26.614	17.340 #
Sum Aroclor-1248			125.4E6	415.6E6	129.881	164.590
Average Aroclor-1248					32.470	32.918
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2288.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 14:22  
 Operator : NG  
 Sample : II-38(2.,E13-10103-006,S,5.00g,33.0,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 15:46:34 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2289.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 14:40  
 Operator : NG  
 Sample : JJ-39(0-,E13-10103-007,S,5.00g,87.2,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 15:47:06 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

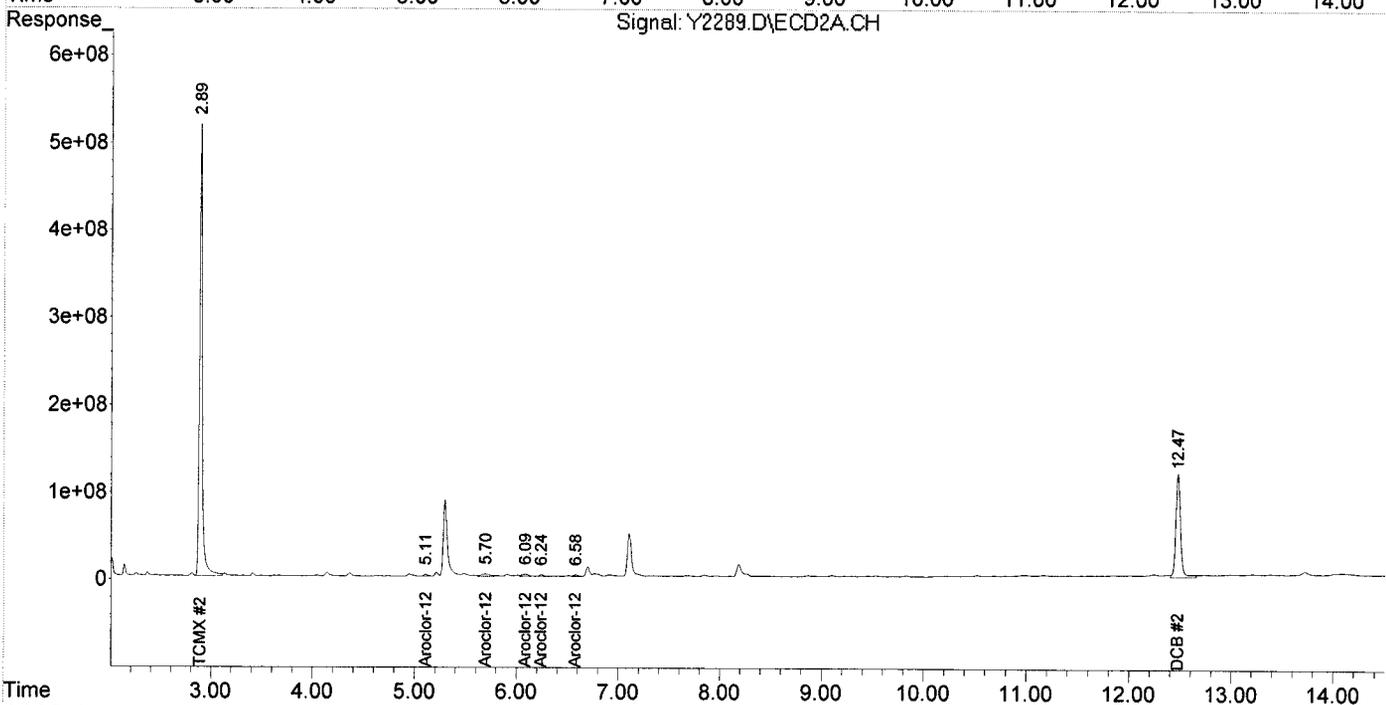
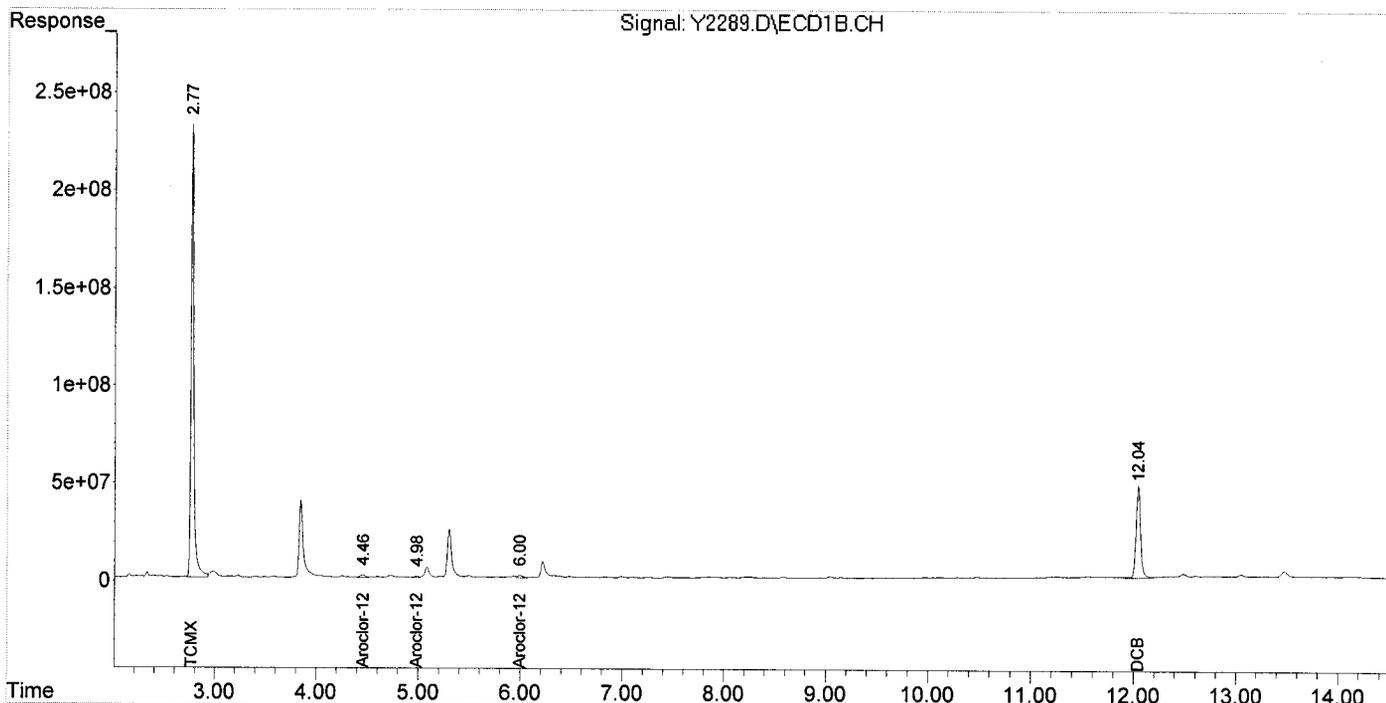
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	4392.6E6	10062.0E6	237.918	273.988
Spiked Amount	200.000		Recovery	=	118.96%	136.99%
2) S DCB	12.04	12.47	1459.6E6	3856.0E6	236.827	298.526 #
Spiked Amount	200.000		Recovery	=	118.41%	149.26%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.46	5.11	49250555	46030613	45.919	19.205 #
24) L6 Aroclor-1248 {2}	4.98	5.70	21029806	154.9E6	34.013	43.765 #
25) L6 Aroclor-1248 {3}	0.00	6.09	0	106.6E6	N.D. d	41.809 #
26) L6 Aroclor-1248 {4}	6.00	6.24	45971231	52761630	36.390	23.659 #
27) L6 Aroclor-1248 {5}	0.00	6.58	0	57933906	N.D. d	44.739 #
Sum Aroclor-1248			116.3E6	418.3E6	116.321	173.177
Average Aroclor-1248					38.774	34.635
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
Data File : Y2289.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 18 Oct 2013 14:40  
Operator : NG  
Sample : JJ-39(0-,E13-10103-007,S,5.00g,87.2,20  
Misc : 131017-11,10/17/13,10/10/13,1  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 18 15:47:06 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2290.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 14:57  
 Operator : NG  
 Sample : JJ-39(1.,E13-10103-008,S,5.00g,78.4,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 15:47:32 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

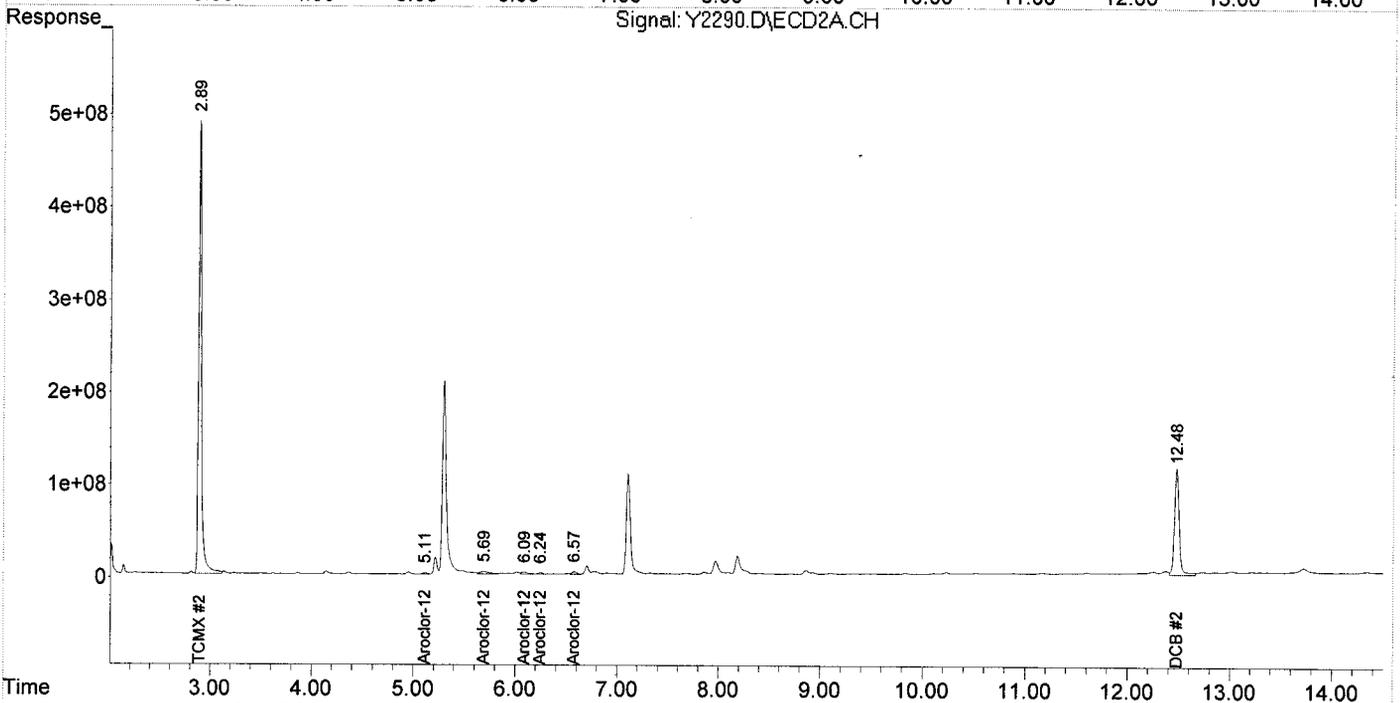
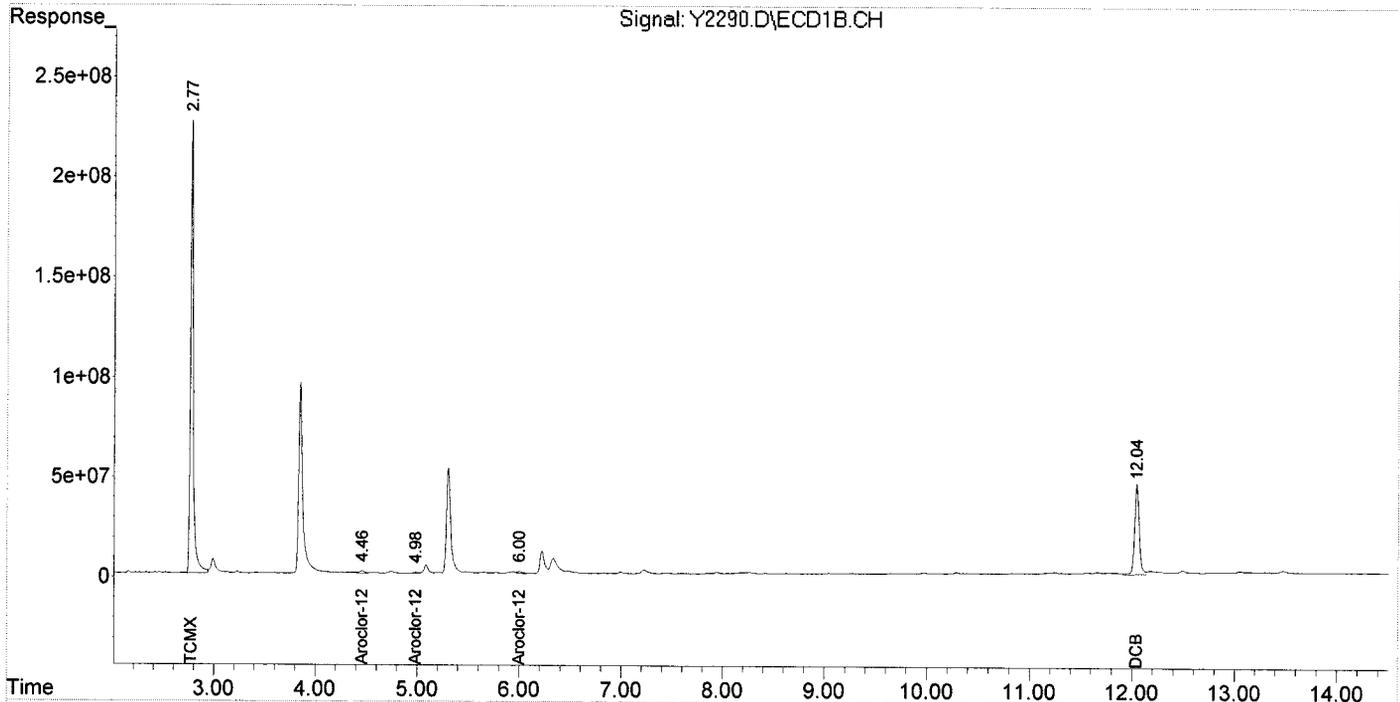
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	4425.9E6	9736.9E6	239.721	265.135
Spiked Amount	200.000		Recovery	=	119.86%	132.57%
2) S DCB	12.04	12.48	1419.9E6	3763.2E6	230.389	291.340 #
Spiked Amount	200.000		Recovery	=	115.19%	145.67%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.46	5.11	41892660	37573297	39.058	15.677 #
24) L6 Aroclor-1248 {2}	4.98	5.69	14455159	175.8E6	23.379	49.679 #
25) L6 Aroclor-1248 {3}	0.00	6.09	0	92422010	N.D. d	36.234 #
26) L6 Aroclor-1248 {4}	6.00	6.24	34109568	43180413	27.000	19.363 #
27) L6 Aroclor-1248 {5}	0.00	6.58	0	81556834	N.D. d	62.982 #
Sum Aroclor-1248			90457388	430.6E6	89.438	183.934
Average Aroclor-1248					29.813	36.787
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2290.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 14:57  
 Operator : NG  
 Sample : JJ-39(1.,E13-10103-008,S,5.00g,78.4,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 15:47:32 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2291.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 15:15  
 Operator : NG  
 Sample : II-35R(5,E13-10103-009,S,5.00g,21.4,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 15:47:55 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

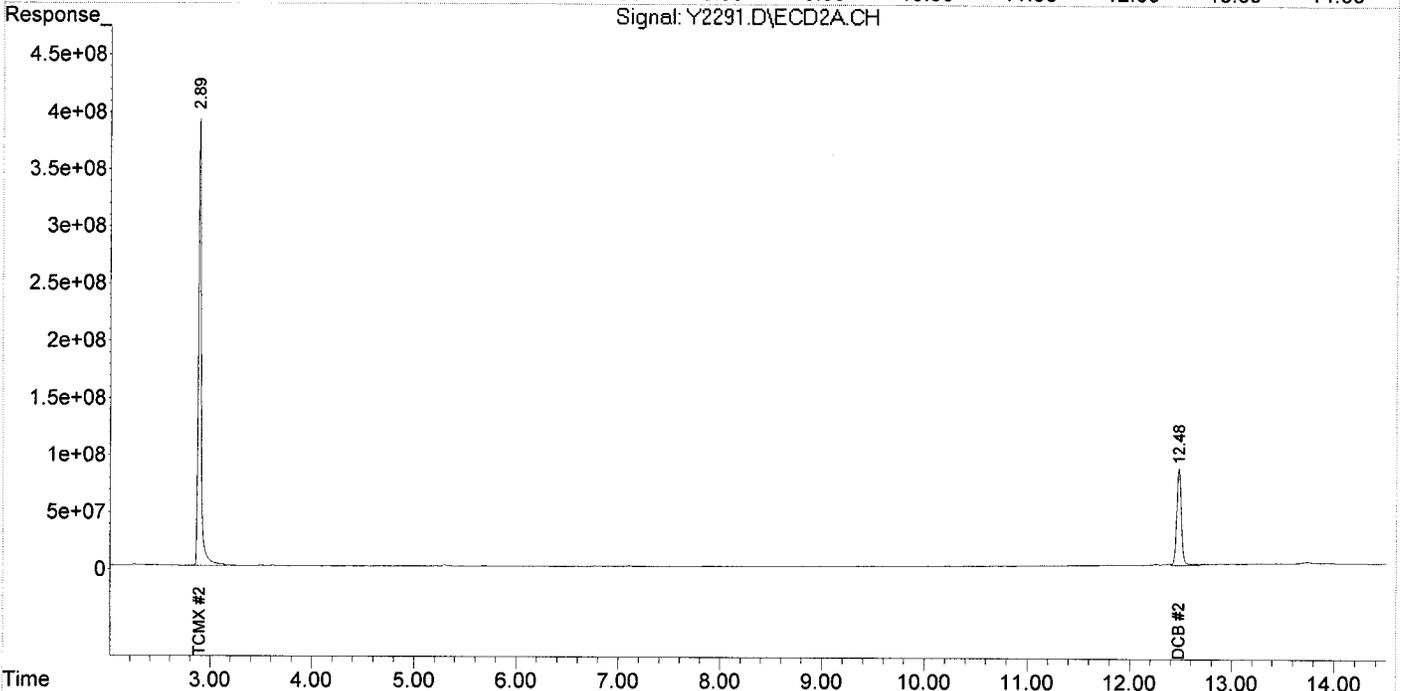
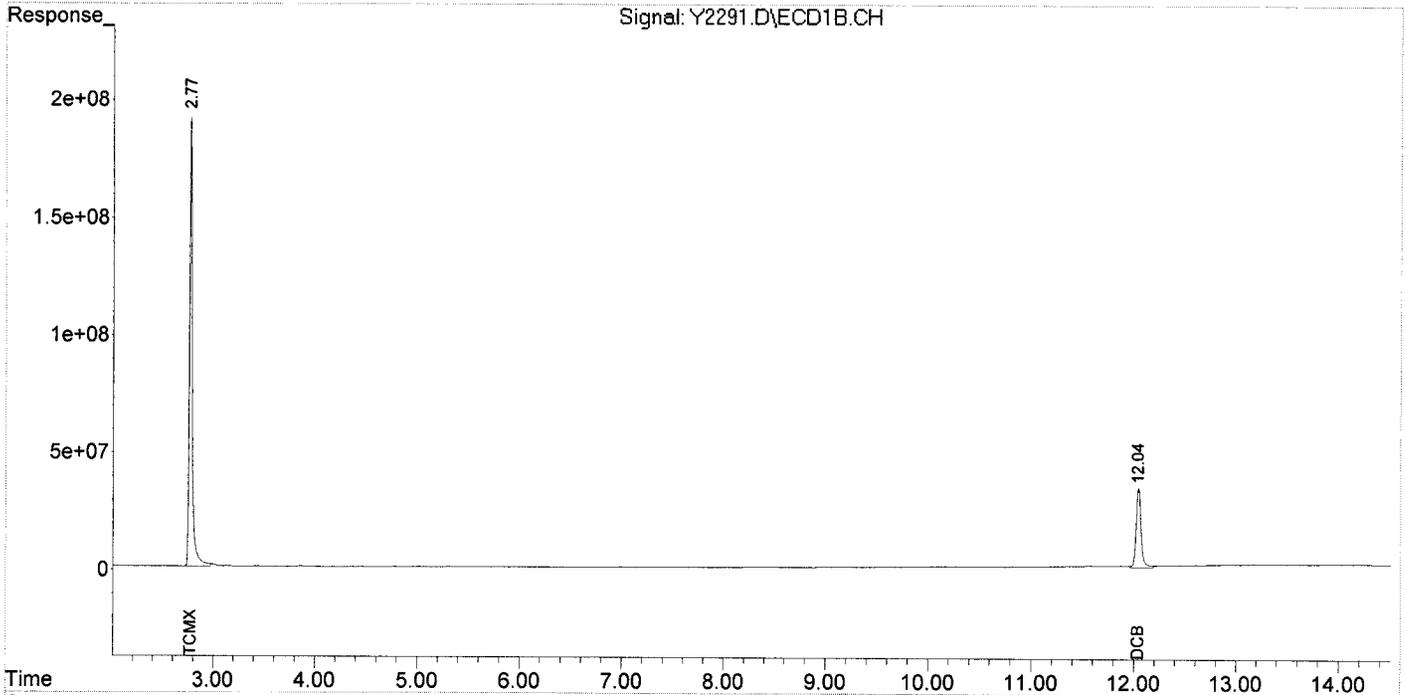
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3711.4E6	7678.0E6	201.022	209.071
Spiked Amount	200.000				Recovery = 100.51%	104.54%
2) S DCB	12.04	12.48	1123.6E6	2696.9E6	182.319	208.793
Spiked Amount	200.000				Recovery = 91.16%	104.40%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
Data File : Y2291.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 18 Oct 2013 15:15  
Operator : NG  
Sample : II-35R(5,E13-10103-009,S,5.00g,21.4,20  
Misc : 131017-11,10/17/13,10/10/13,1  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 18 15:47:55 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2292.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 15:32  
 Operator : NG  
 Sample : II-34N(4,E13-10103-010,S,5.00g,23.2,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 15:53:58 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

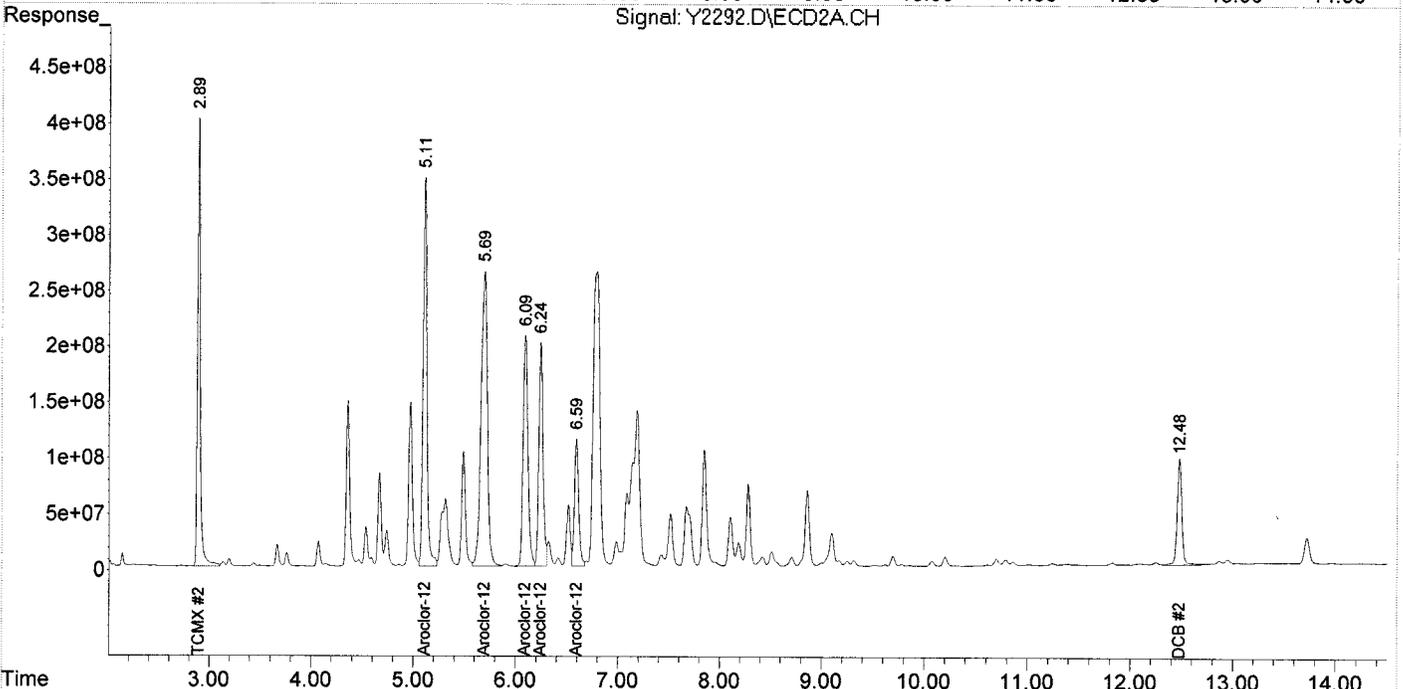
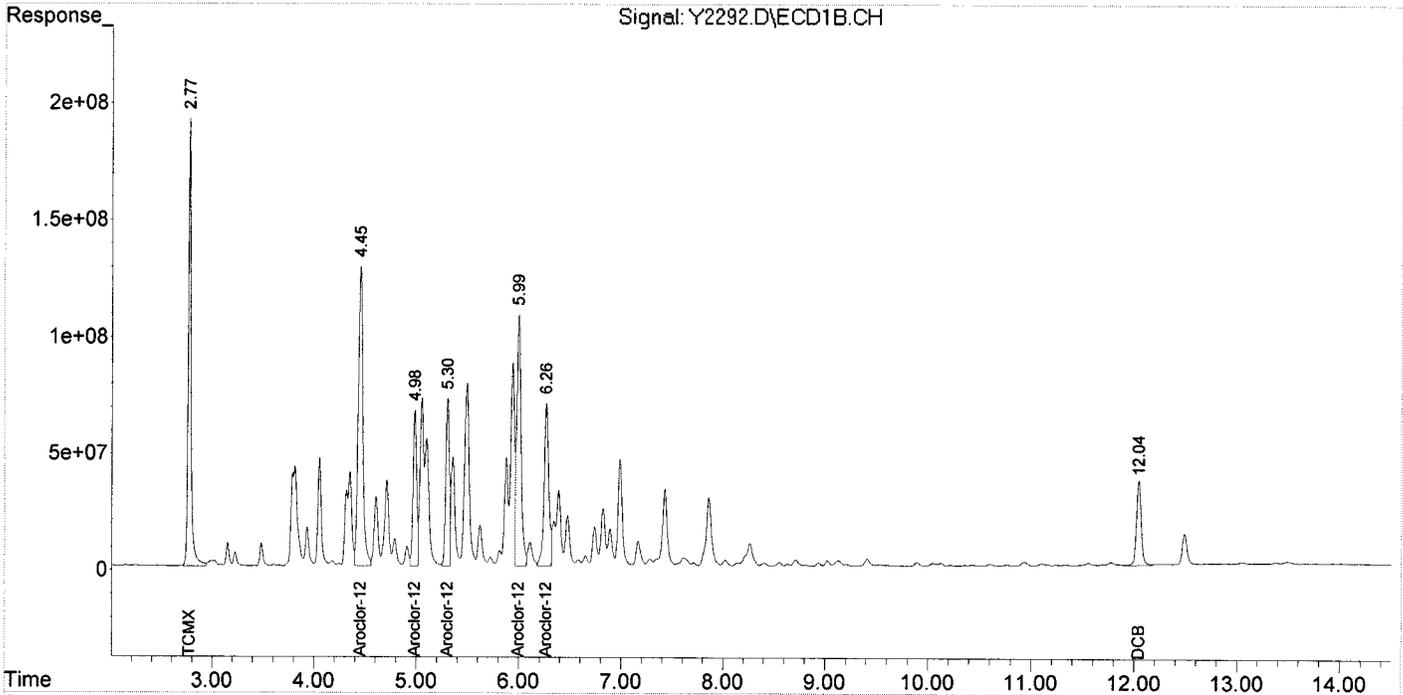
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3668.4E6	7701.5E6	198.692	209.711
Spiked Amount	200.000		Recovery	=	99.35%	104.86%
2) S DCB	12.04	12.48	1182.5E6	3068.5E6	191.866	237.563
Spiked Amount	200.000		Recovery	=	95.93%	118.78%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	4116.1E6	9056.4E6	3837.658	3778.611
24) L6 Aroclor-1248 {2}	4.98	5.69	1612.1E6	11298.1E6	2607.343	3192.137
25) L6 Aroclor-1248 {3}	5.30	6.09	1777.0E6	6713.5E6	2234.076	2631.972
26) L6 Aroclor-1248 {4}	6.00	6.24	3169.0E6	5658.5E6	2508.488	2537.347
27) L6 Aroclor-1248 {5}	6.27	6.59	2222.1E6	3283.4E6	2225.337	2535.622
Sum Aroclor-1248			12896.3E6	36009.8E6	13412.902	14675.690
Average Aroclor-1248					2682.580	2935.138
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2292.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 15:32  
 Operator : NG  
 Sample : II-34N(4,E13-10103-010,S,5.00g,23.2,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 15:53:58 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2297.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 17:34  
 Operator : NG  
 Sample : II-34N(4,E13-10103-010DL,S,5.00g,23.2,20  
 Misc : 131017-11,10/17/13,10/10/13,5  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 21 09:18:34 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

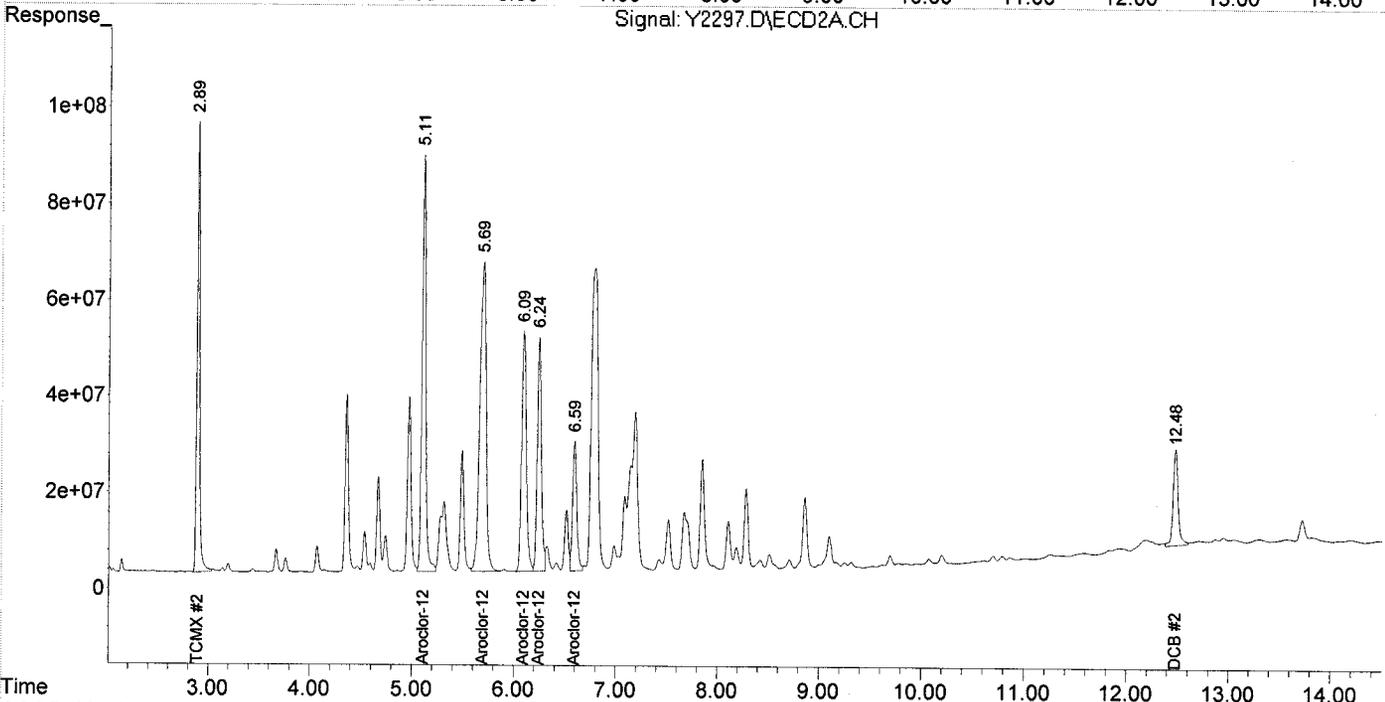
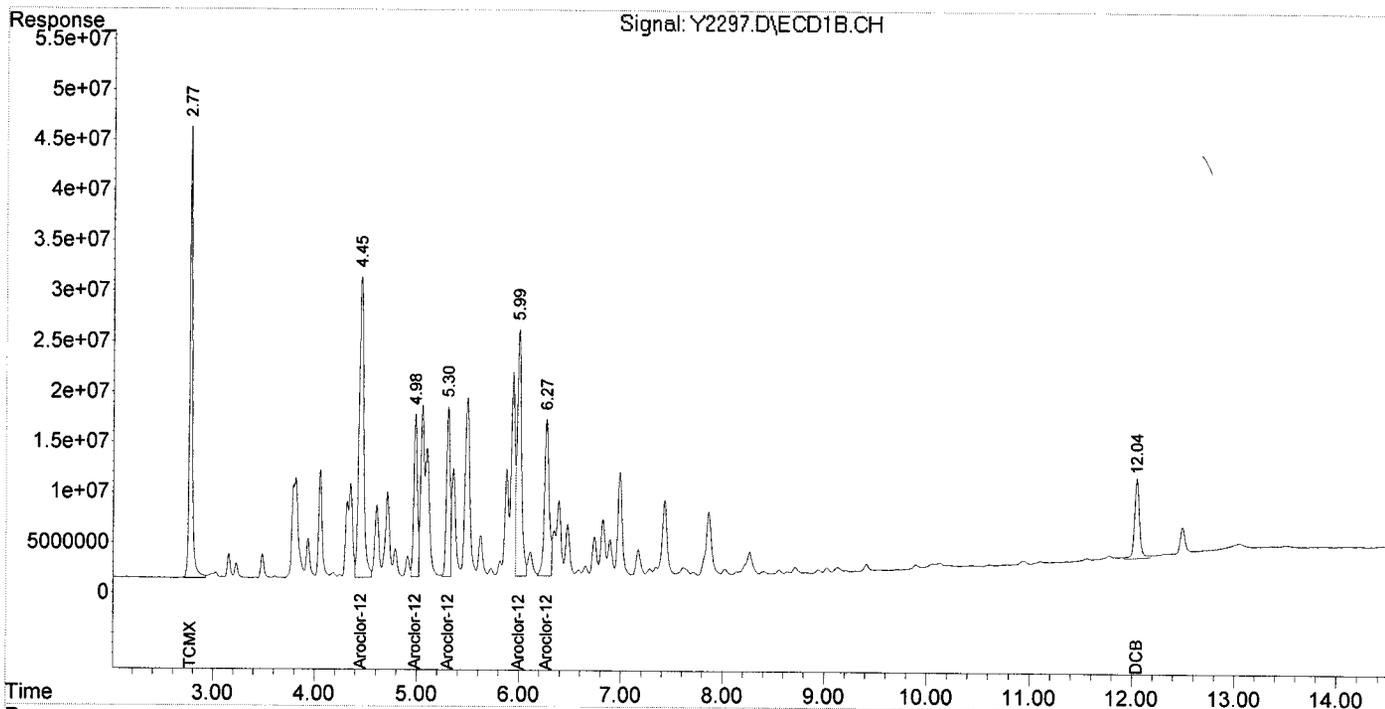
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	846.1E6	1742.4E6	45.831	47.444
Spiked Amount	200.000		Recovery	=	22.92%	23.72%
2) S DCB	12.04	12.48	268.5E6	691.1E6	43.572m	53.506m
Spiked Amount	200.000		Recovery	=	21.79%	26.75%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	956.5E6	2220.9E6	891.748	926.641
24) L6 Aroclor-1248 {2}	4.98	5.69	390.2E6	2768.5E6	631.102	782.195
25) L6 Aroclor-1248 {3}	5.30	6.09	417.2E6	1605.8E6	524.538	629.561
26) L6 Aroclor-1248 {4}	6.00	6.24	725.8E6	1346.3E6	574.533	603.689
27) L6 Aroclor-1248 {5}	6.27	6.59	495.8E6	770.6E6	496.486	595.077
Sum Aroclor-1248			2985.5E6	8712.1E6	3118.406	3537.164
Average Aroclor-1248					623.681	707.433
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2297.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 17:34  
 Operator : NG  
 Sample : II-34N(4,E13-10103-010DL,S,5.00g,23.2,20  
 Misc : 131017-11,10/17/13,10/10/13,5  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 21 09:18:34 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2293.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 15:50  
 Operator : NG  
 Sample : II-34N(6,E13-10103-011,S,5.00g,21.7,20  
 Misc : 131017-11,10/17/13,10/10/13,1  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 16:07:22 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

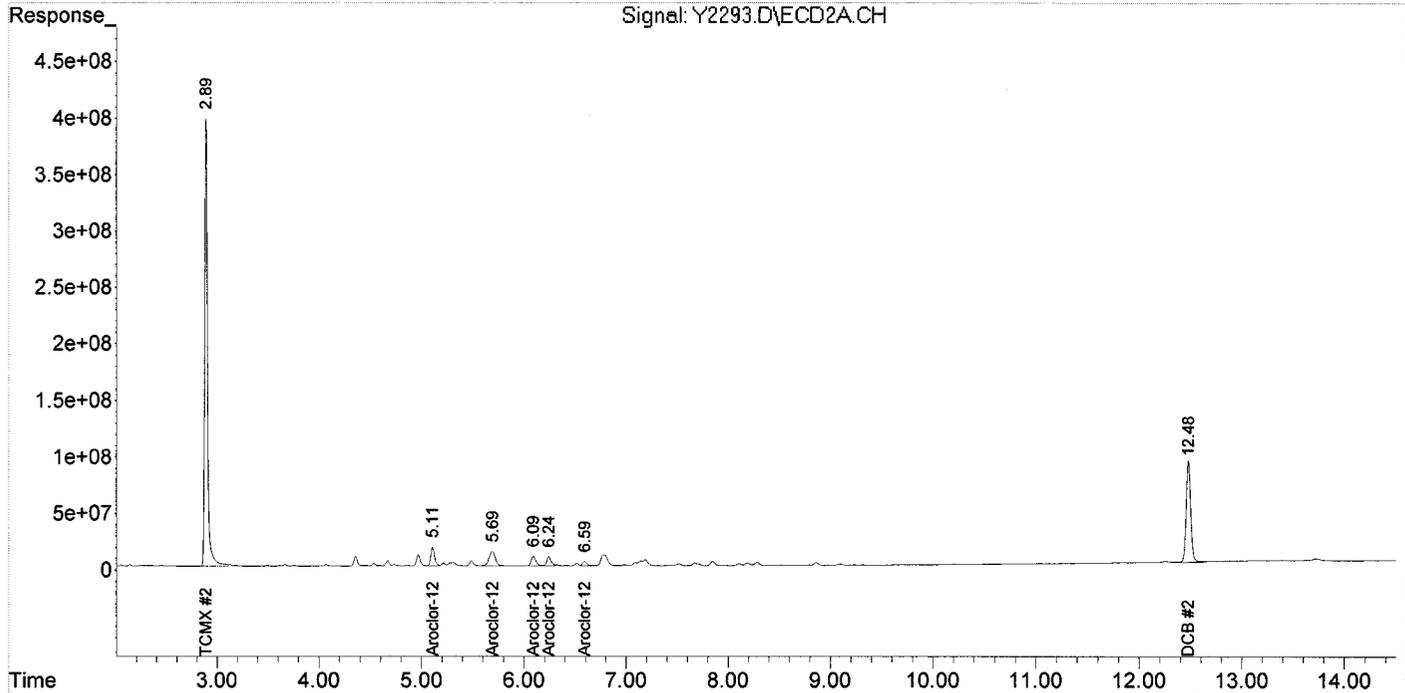
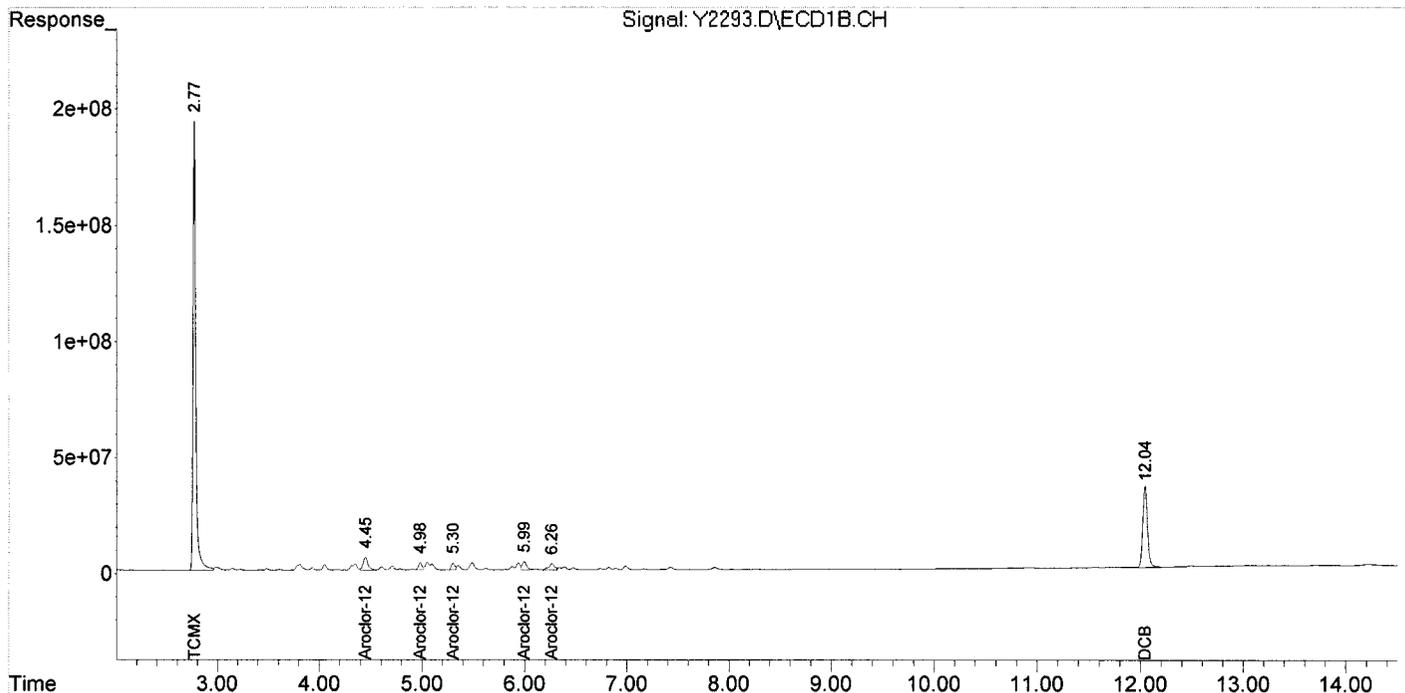
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.89	3679.5E6	7613.8E6	199.297	207.322
Spiked Amount	200.000		Recovery	=	99.65%	103.66%
2) S DCB	12.04	12.48	1116.6E6	2821.7E6	181.179	218.455
Spiked Amount	200.000		Recovery	=	90.59%	109.23%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
23) L6 Aroclor-1248	4.45	5.11	182.7E6	417.7E6	170.325	174.288
24) L6 Aroclor-1248 {2}	4.98	5.69	77725400	536.4E6	125.711	151.546
25) L6 Aroclor-1248 {3}	5.30	6.09	72463317	269.3E6	91.101	105.586
26) L6 Aroclor-1248 {4}	6.00	6.24	111.4E6	232.5E6	88.166	104.276
27) L6 Aroclor-1248 {5}	6.27	6.59	108.7E6	109.4E6	108.851	84.508
Sum Aroclor-1248			552.9E6	1565.4E6	584.154	620.205
Average Aroclor-1248					116.831	124.041
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
Data File : Y2293.D  
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
Acq On : 18 Oct 2013 15:50  
Operator : NG  
Sample : II-34N(6,E13-10103-011,S,5.00g,21.7,20  
Misc : 131017-11,10/17/13,10/10/13,1  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Oct 18 16:07:22 2013  
Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
Quant Title :  
QLast Update : Mon Sep 30 10:08:11 2013  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
Signal #1 Phase : Signal #2 Phase:  
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\10-15-13\  
 Data File : R4778.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 15 Oct 2013 10:59  
 Operator : JS  
 Sample : FB-19,E13-10103-012,A,1000ml,100,5  
 Misc : 131014-14,10/14/13,10/10/13,1  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 15 15:26:38 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

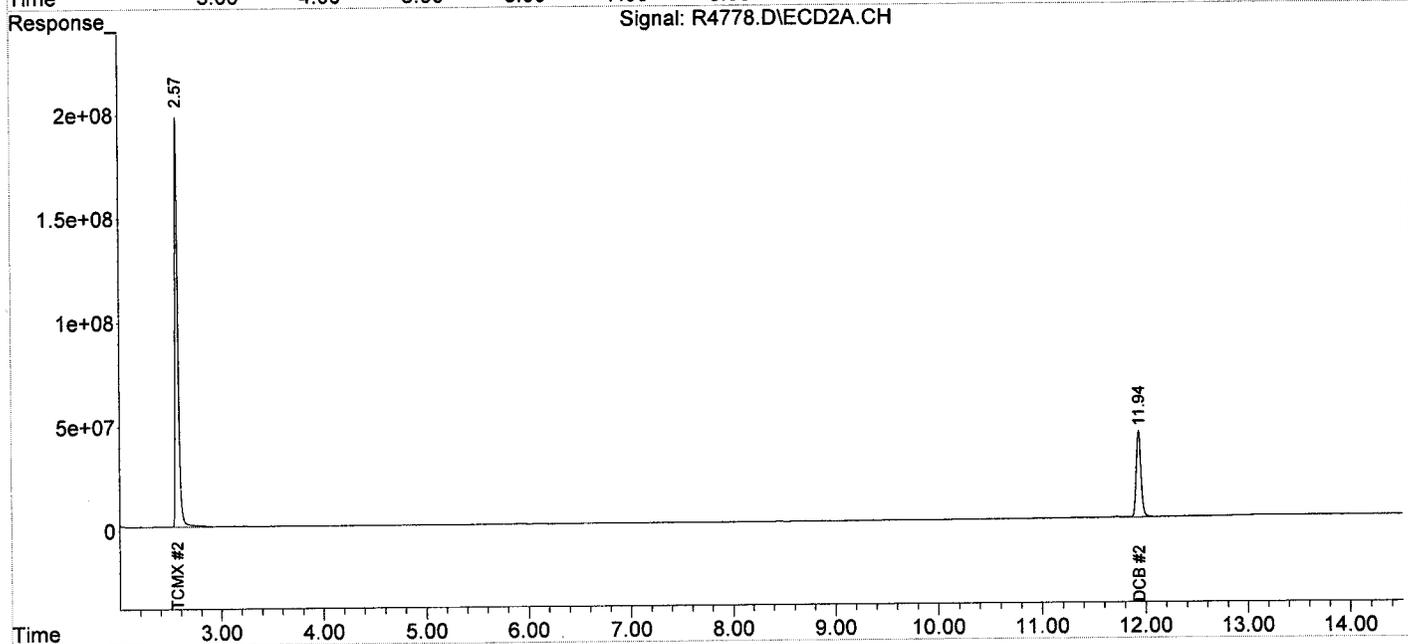
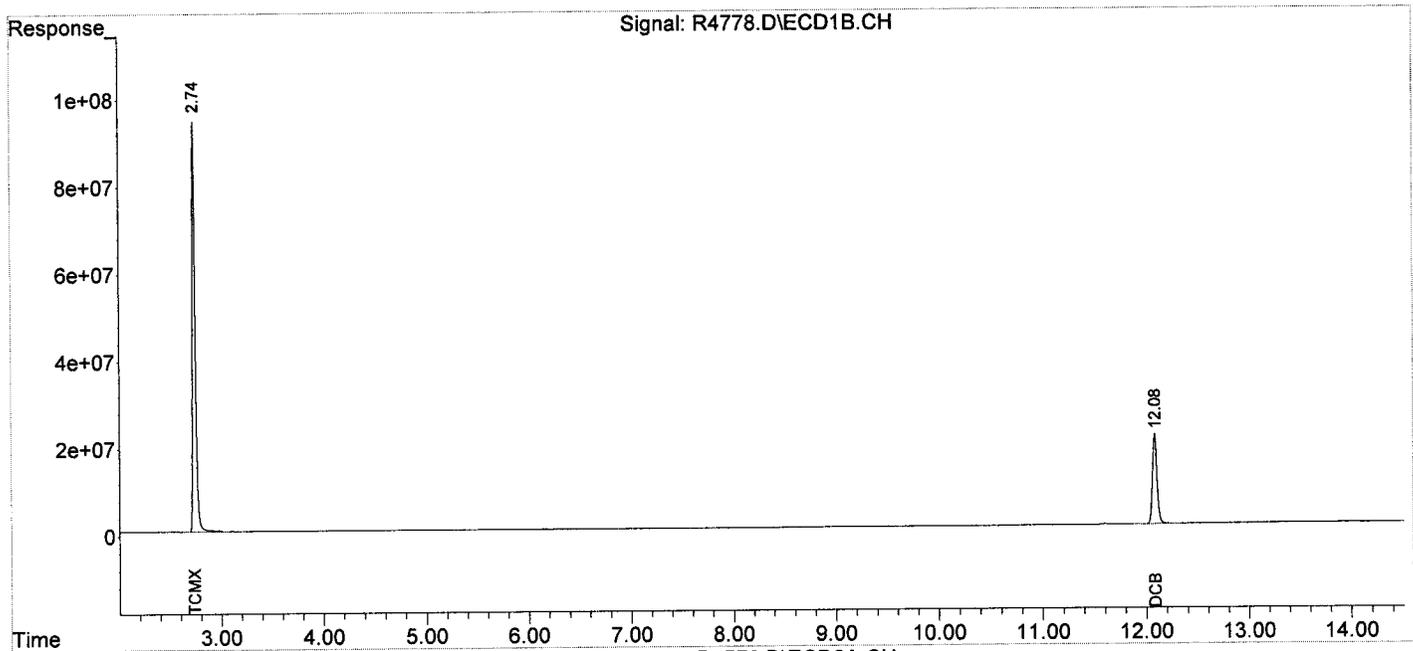
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.57	1856.4E6	4030.8E6	158.682	183.015
Spiked Amount	200.000		Recovery	=	79.34%	91.51%
2) S DCB	12.08	11.94	629.2E6	1328.7E6	168.445	204.918
Spiked Amount	200.000		Recovery	=	84.22%	102.46%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-15-13\  
 Data File : R4778.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 15 Oct 2013 10:59  
 Operator : JS  
 Sample : FB-19,E13-10103-012,A,1000ml,100,5  
 Misc : 131014-14,10/14/13,10/10/13,1  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 15 15:26:38 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: BLKA131014-14  
 Client ID: PCB  
 Date Received: NA  
 Date Extracted: 10/14/2013  
 Date Analyzed: 10/15/2013  
 Data file: R4776.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 1000ml  
 Matrix-Units: Aqueous-µg/L (ppb)  
 Dilution Factor: 1  
 % Moisture: 100

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

Data Path : C:\MSDCHEM\1\DATA\10-15-13\  
 Data File : R4776.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 15 Oct 2013 10:20  
 Operator : JS  
 Sample : PCB,BLKA131014-14,A,1000ml,100,5  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 15 15:25:18 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

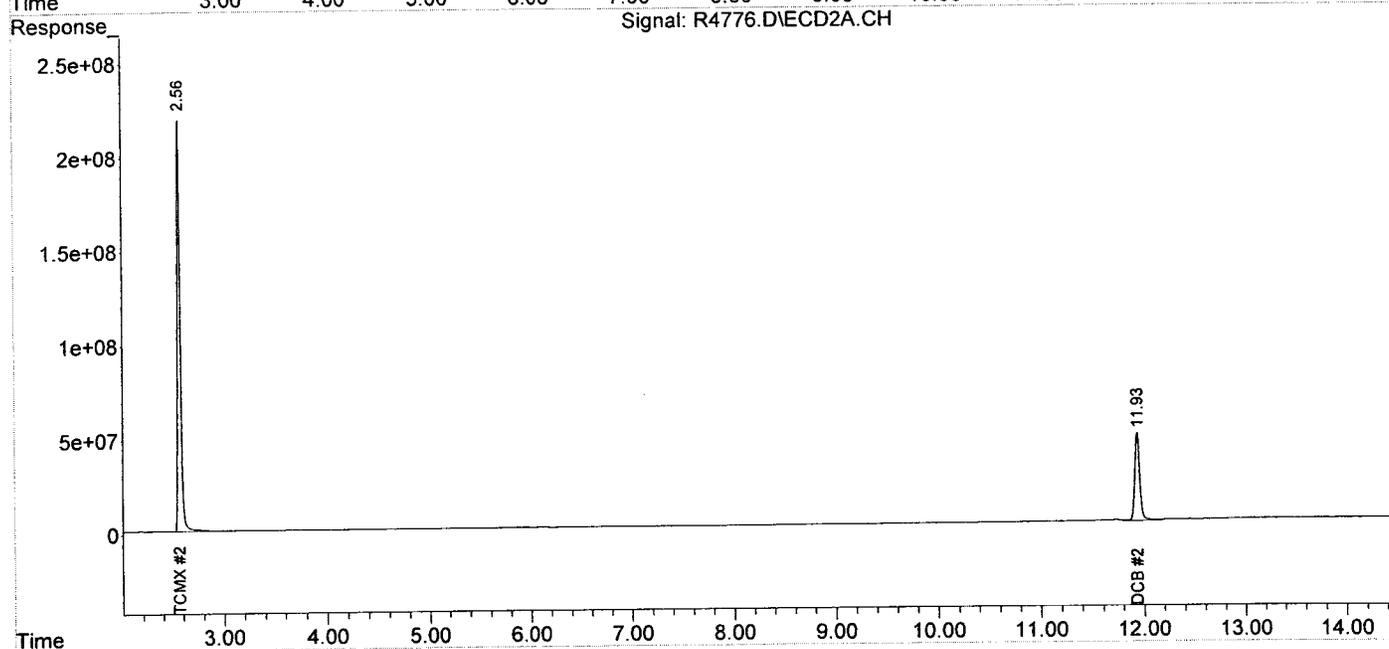
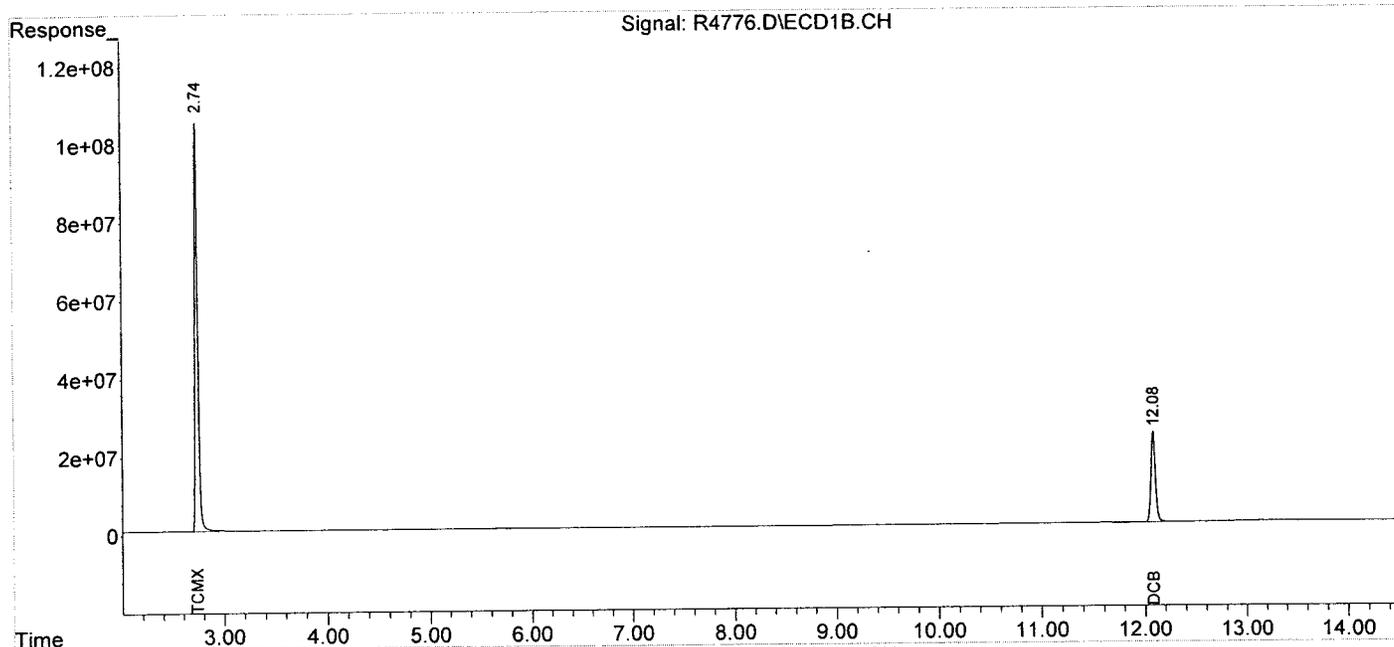
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2087.2E6	4490.3E6	178.411	203.881
Spiked Amount	200.000		Recovery	=	89.21%	101.94%
2) S DCB	12.08	11.93	715.9E6	1576.1E6	191.654	243.073 #
Spiked Amount	200.000		Recovery	=	95.83%	121.54%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-15-13\  
 Data File : R4776.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 15 Oct 2013 10:20  
 Operator : JS  
 Sample : PCB,BLKA131014-14,A,1000ml,100,5  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 15 15:25:18 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKS131016-07  
Client ID: PCB  
Date Received: NA  
Date Extracted: NA  
Date Analyzed: 10/17/2013  
Data file: R4784.D

GC Column: DB-5/DB1701P  
Sample wt/vol: 5.00g  
Matrix-Units: Soil-mg/Kg (ppm)  
Dilution Factor: 1  
% Moisture: NA

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed  
J --- Value Less than RL & great than MDL  
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
C --- Common laboratory contamination

Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4784.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 11:39  
 Operator : JS  
 Sample : PCB,BLKS131016-07,S,5.00g,0,20  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 17 13:07:45 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

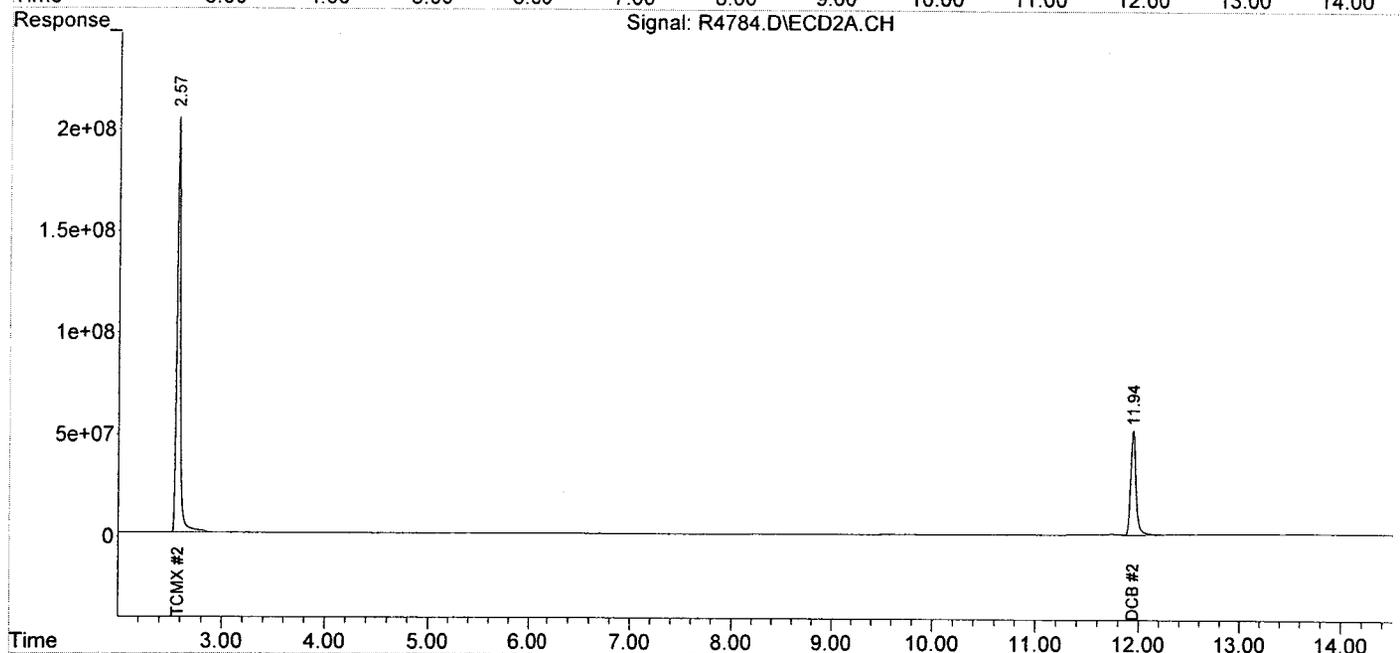
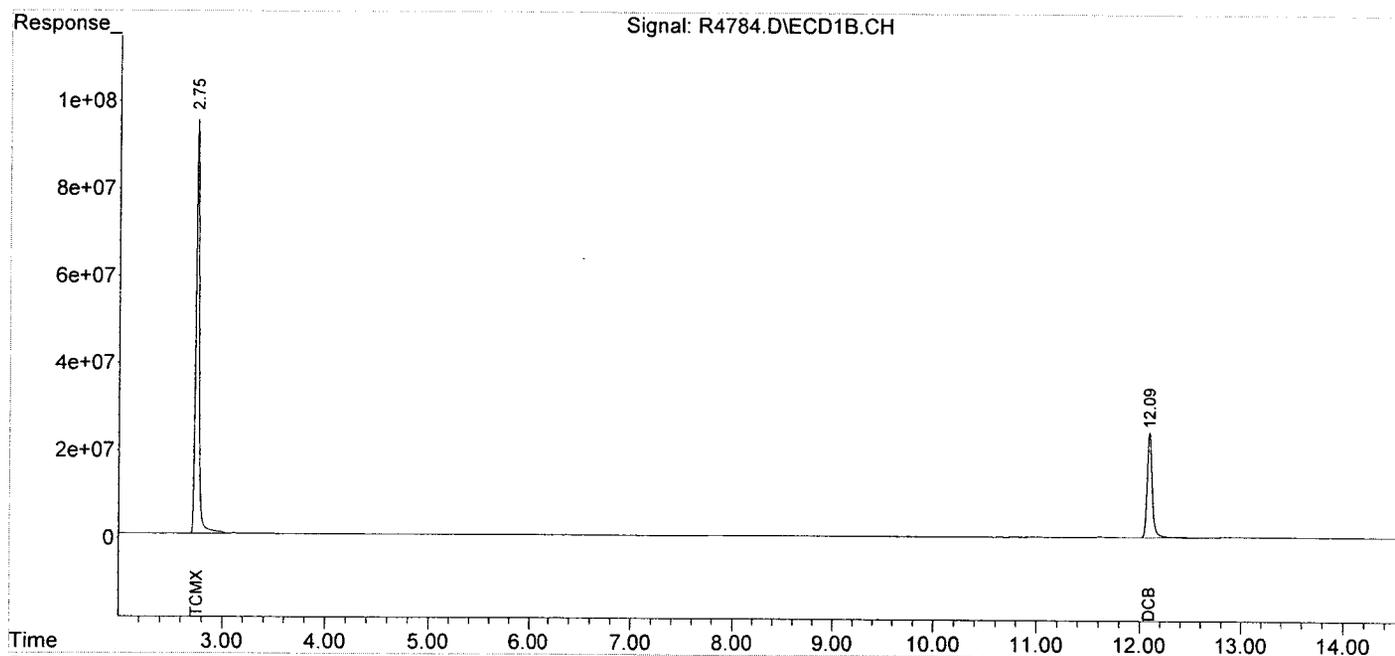
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
-----						
System Monitoring Compounds						
1) S TCMX	2.75	2.57	2190.1E6	4830.0E6	187.211	219.306
Spiked Amount	200.000					
			Recovery	=	93.61%	109.65%
2) S DCB	12.09	11.94	841.4E6	1846.8E6	225.250	284.813 #
Spiked Amount	200.000					
			Recovery	=	112.63%	142.41%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-17-13\  
 Data File : R4784.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 17 Oct 2013 11:39  
 Operator : JS  
 Sample : PCB,BLKS131016-07,S,5.00g,0,20  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 17 13:07:45 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB0925.M  
 Quant Title :  
 QLast Update : Wed Sep 25 15:09:16 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



**INTEGRATED ANALYTICAL LABORATORIES**

**PCB's**

Lab ID: BLKS131017-11  
 Client ID: PCB  
 Date Received: NA  
 Date Extracted: 10/17/2013  
 Date Analyzed: 10/18/2013  
 Data file: Y2272.D

GC Column: DB-5/DB1701P  
 Sample wt/vol: 5.00g  
 Matrix-Units: Soil-mg/Kg (ppm)  
 Dilution Factor: 1  
 % Moisture: NA

<b>Compound</b>	<b>Concentration</b>	<b>Q</b>	<b>RL</b>	<b>MDL</b>
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed  
 J --- Value Less than RL & great than MDL  
 E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank  
 C --- Common laboratory contamination

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2272.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 9:32  
 Operator : NG  
 Sample : PCB,BLKS131017-11,S,5.00g,0.20  
 Misc : NA,NA,NA,1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 11:14:44 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :

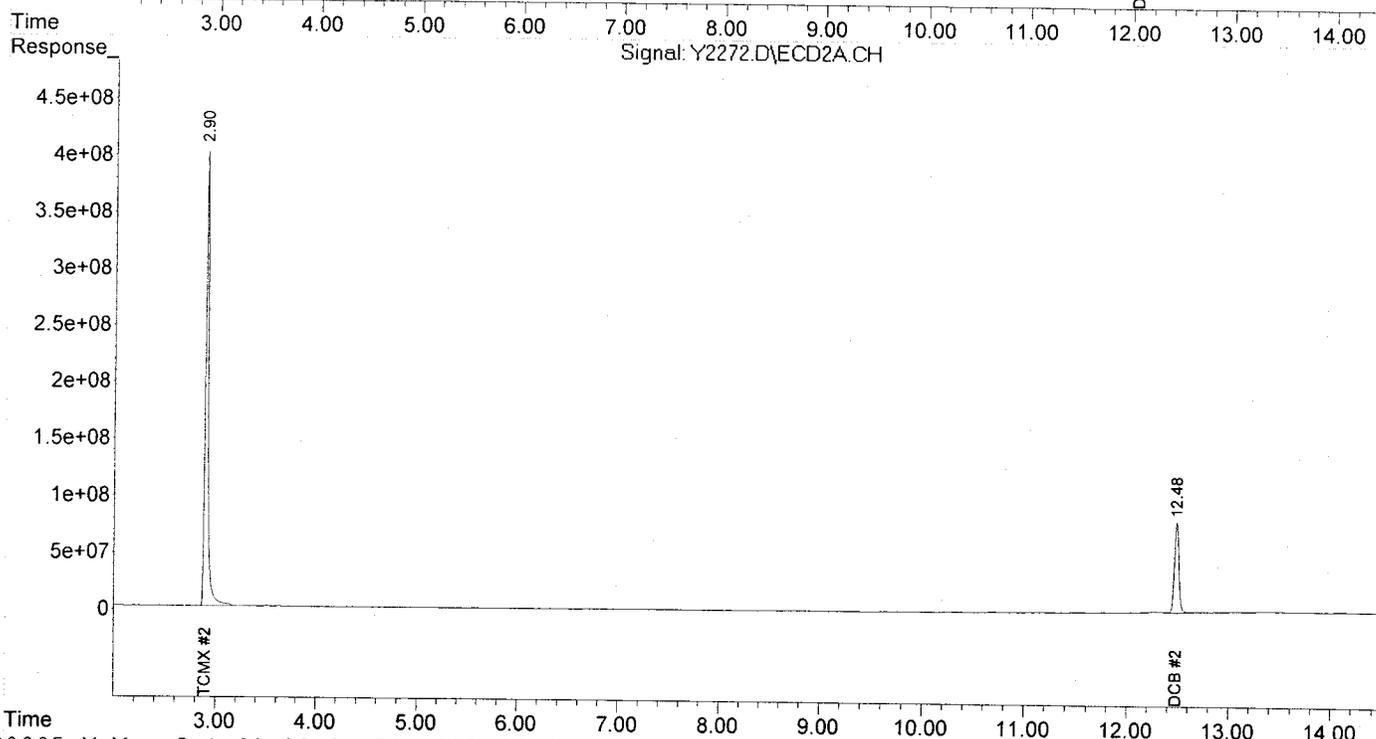
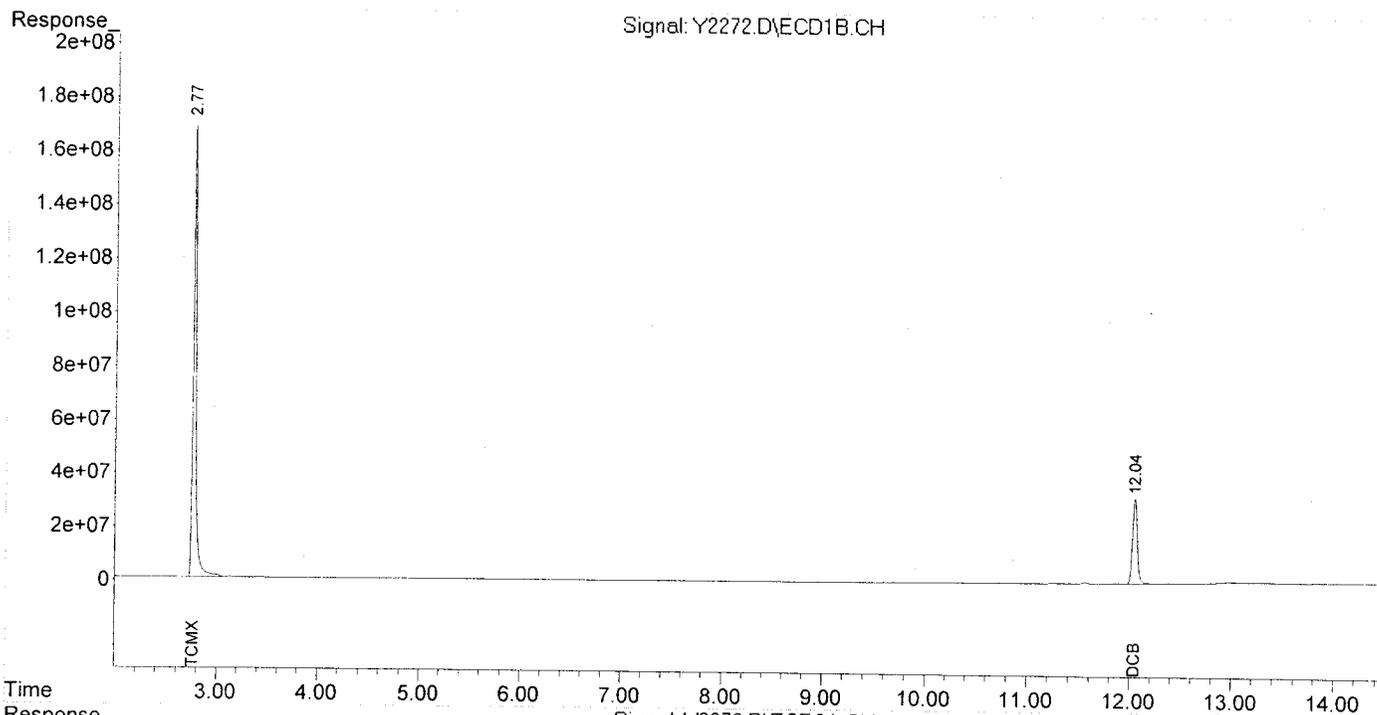
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.90	3540.1E6	8529.0E6	191.747	232.243
Spiked Amount	200.000				Recovery = 95.87%	116.12%
2) S DCB	12.04	12.48	1041.1E6	2511.7E6	168.925	194.454
Spiked Amount	200.000				Recovery = 84.46%	97.23%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\10-18-13\  
 Data File : Y2272.D  
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH  
 Acq On : 18 Oct 2013 9:32  
 Operator : NG  
 Sample : PCB.BLKS131017-11.S.5.00g.0.20  
 Misc : NA.NA.NA.1  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Oct 18 11:14:44 2013  
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB0925.M  
 Quant Title :  
 QLast Update : Mon Sep 30 10:08:11 2013  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :  
 Signal #1 Phase : Signal #2 Phase:  
 Signal #1 Info : Signal #2 Info :



**SAMPLE TRACKING**





# PROJECT INFORMATION

## E13-10103: ARSYNCO

**To:** Jim Clabby  
 JMC Environmental Consultants  
 Fax: 1(732) 295-2150  
 EMail: jclabby@jmcenvironmental.com; ah

**Report To**

JMC Environmental Consultants  
 2109 Bridge Avenue  
 Building B  
 Point Pleasant, NJ 08742  
 Attn: Jim Clabby

**Bill To**

JMC Environmental Consultants  
 Aceto Corp.  
 4 Tri Harbor Court  
 Port Washington, NY 11050  
 Attn: Mr. Ed Kelly

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	Oct 10, 2013 @ 17:01	NA	Oct 25, 2013	Nov 01, 2013 *

\* Any *Conditional or Hold* status will delay final hardcopy report sent date.

**Diskette Req.** SRP TXT

**\*\* QC Requirement (must meet):** NJ SRS

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
10103-001	JJ-38(0-1.0)	0/1.0	10/10/13@09:25	Soil	mg/Kg (ppm)	
10103-002	JJ-38(1.0-2.0)	1.0/2.0	10/10/13@09:26	Soil	mg/Kg (ppm)	
10103-003	JJ-38(2.0-3.0)	2.0/3.0	10/10/13@09:27	Soil	mg/Kg (ppm)	
10103-004	II-38(0-1.0)	0/1.0	10/10/13@10:23	Soil	mg/Kg (ppm)	
10103-005	II-38(1.0-2.0)	1.0/2.0	10/10/13@10:24	Soil	mg/Kg (ppm)	
10103-006	II-38(2.0-3.0)	2.0/3.0	10/10/13@10:25	Soil	mg/Kg (ppm)	
10103-007	JJ-39(0-1.0)	0/1.0	10/10/13@11:05	Soil	mg/Kg (ppm)	
10103-008	JJ-39(1.0-2.0)	1.0/2.0	10/10/13@11:06	Soil	mg/Kg (ppm)	
10103-009	II-35R(5.0-6.0)	5.0/6.0	10/10/13@12:05	Soil	mg/Kg (ppm)	
10103-010	II-34N(4.0-5.0)	4.0/5.0	10/10/13@13:50	Soil	mg/Kg (ppm)	
10103-011	II-34N(6.0-7.0)	6.0/7.0	10/10/13@13:51	Soil	mg/Kg (ppm)	
10103-012	FB-19	NA	10/10/13@14:20	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
002	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
003	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
004	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
005	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
006	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
007	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
008	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
009	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
010	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013



# PROJECT INFORMATION

## E13-10103: ARSYNCO

<u>Sample #</u>	<u>Test</u>	<u>Status</u>	<u>QA Method</u>	<u>TAT</u>	<u>Holding Time Expires</u>
011	TCL PCB	Analyze	8082A	STD/2 WKS	10/24/2013
012	TCL PCB	Analyze	8082A	STD/2 WKS	10/17/2013

INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: E 13

10103

CLIENT:

JMC

COOLER TEMPERATURE: 2° - 6°C:

( See Chain of Custody)

Comments

COC: COMPLETE / INCOMPLETE

KEY

= YES/NA  
 = NO

VOA received:  Encore  IGW - Methanol  
(check one)  Terra Core  No Preservative

Bottles Intact  
 no-Missing Bottles  
 no-Extra Bottles

Sufficient Sample Volume  
 no-headspace/bubbles in VO's  
 Labels intact/correct  
 pH Check (exclude VO's)<sup>1</sup>  
 Correct bottles/preservative  
 Sufficient Holding/Prep Time<sup>1</sup>  
 Multiphasic Sample  
 Sample to be Subcontracted  
 Chain of Custody is Clear

<sup>1</sup> All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY:

INITIAL

DATE

10/10/13

CORRECTIVE ACTION REQUIRED:

YES

(SEE BELOW)

NO

If COC is NOT clear, **STOP** until you get client to authorize/clarify work.

CLIENT NOTIFIED:

YES

Date/ Time:

\_\_\_\_\_

NO

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY:

INITIAL

ES

DATE

10/11

# Laboratory Custody Chronicle

IAL Case No.

**E13-10103**

Client JMC Environmental Consultants

Project ARSYNCO

Received On 10/10/2013@17:01

Department: GC

TCL PCB

			<u>Prep. Date</u>	<u>Analyst</u>	<u>Analysis Date</u>	<u>Analyst</u>
"	10103-001	Soil	10/16/13	Archimede	10/17/13	Justyna
"	-002	"	10/16/13	Archimede	10/17/13	Justyna
"	-003	"	10/16/13	Archimede	10/17/13	Justyna
"	-004	"	10/16/13	Archimede	10/17/13	Justyna
"	-005	"	10/17/13	Archimede	10/18/13	Justyna
"	-006	"	10/17/13	Archimede	10/18/13	Justyna
"	-007	"	10/17/13	Archimede	10/18/13	Justyna
"	-008	"	10/17/13	Archimede	10/18/13	Justyna
"	-009	"	10/17/13	Archimede	10/18/13	Justyna
"	-010	"	10/17/13	Archimede	10/18/13	Justyna
"	-011	"	10/17/13	Archimede	10/18/13	Justyna
"	-012	Aqueous	10/14/13	Archimede	10/15/13	Justyna